FACULTY OF WOOD SCIENCES AND TECHNOLOGY

Technical University in Zvolen

ANNUAL REPORT
ON THE ACTIVITIES OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY
TECHNICAL UNIVERSITY IN ZVOLEN
FOR 2020

Zvolen, 2021

The presented annual report on the activities of The Faculty of Wood Sciences and Technology of the Technical University in Zvolen is prepared by the management of the Faculty in accordance with Act No. 131/2002 Coll. on Higher Education and on Amendments and Supplements to Certain Acts. It evaluates the activities of the faculty in the basic areas for the year 2020. The individual parts of the report were discussed by the College of the Dean of the Faculty of Wood Sciences and Technology and subsequently approved by the Scientific and Artistic Board of The Faculty of Wood Sciences and Technology in Zvolen.

The annual report as a whole provides a comprehensive picture of the structure, qualitative and quantitative indicators of individual activities of the Faculty and its basic organizational components - departments. It also provides important information for the Scientific and Artistic Board and the Academic Senate of The Faculty of Wood Sciences and Technology. It is the basis for the periodic evaluation of the faculty by the authorities of the Technical University in Zvolen and the Ministry of Education, Science, Research and Sport of the Slovak Republic. The report is a part of the documents for the preparation of the report of the Long-term Plan of The Faculty of Wood Sciences and Technology in Zvolen for the years 2017 - 2023.

The results of the annual report show that the management of the Faculty of Wood Sciences and Technology makes maximum use of the available financial and human resources to efficiently perform the tasks and achieve the goals set in the Long-term Plan of the Faculty of Wood Sciences and Technology of the Technical University for 2017 - 2023. All measures implemented during the previous period were aimed at streamlining the work and activities of the Faculty of Wood Sciences and Technology as well as increasing the performance in pedagogical, scientific research and other activities.

prof. Ing. Ján Sedliačik, PhD.
Dean of the Faculty

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I. AUTHORITIES OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

I. 1. ACADEMIC FUNCTIONARIES OF THE FACULTY

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Ing. Adrián Banski, PhD.
Vice-Dean for Educational Activities
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I. 2. ACADEMIC SENATE OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

Members of the Bureau:

prof. Ing. Ivan Klement, CSc.	- Chairman
Ing. Denisa Lizoňová, ArtD.	- Secretary
doc. Ing. Ján Parobek, PhD	- Chairman of the Economic Commission
doc. Ing. Martin Zachar, PhD.	- Chairman of the Legislative Commission

Members:

doc. Ing. Iveta Čabalová, PhD.
prof. Ing. Ladislav Dzurenda, PhD.
Mgr. Elena Farkašová, ArtD.
doc. Ing. Jozef Gáborík, CSc.
Ing. Jarmila Klementová, PhD.
doc. PaedDr. Ľuboš Krišťák, PhD .
doc. Ing. Miroslava Mamoňová, PhD.
Ing. Ľubica Slašťanová
Ing. Roman Soyka, PhD.
Natália Repiská
Ivan Strmy
Lucia Trnkócyová
Bc. Simona Hanesová
Bc. Marika Hôrčiková
Ing. Michal Andrejko (PhD student)
Ing. Michal Dudiak (PhD student)

I. 3. SCIENTIFIC AND ARTISTIC BOARD OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

The Chair: **Prof. Ing. Ján Sedliačik, PhD.**

Members:

doc. akad. sculptor. René Baďura
doc. Ing. Martin Böhm, Ph.D.
doc. Ing. Josef Drábek, CSc.
prof. Ing. Ladislav Dzurenda, PhD.
doc. RNDr. Milada Gajtanska, CSc.
prof. Ing. Anton Geffert, CSc.
RNDr. Jiří Homolka
Ing. Daniel Huliak
Ing. Rastislav Igaz, PhD.
doc. Ing. Pavol Joščák, CSc.
prof. RNDr. Danica Kačíková, PhD., MSc.
prof. Ing. Ivan Klement, CSc.
doc. Ing. Marián Kučera, PhD.
doc. Ing. Zdeněk Kopecký, CSc.
prof. Ing. Jozef Kúdela, CSc.
prof. akad. sculptor. Peter Paliatka
Ing. Igor Patráš
Ing. Ján Pivoluska
prof. Ing. Ladislav Reinprecht, CSc.
prof. Ing. Mikuláš Siklienka, PhD.
prof. Ing. Maroš Soldán, PhD.
prof. Ing. Jozef Štefko, CSc.
Dr. h. c. prof. Ing. Mikuláš Šupín, CSc.
doc. Ing. Zuzana Tončíková, ArtD.
prof. Ing. Juraj Veselovský, CSc.

I. 4. DEAN´S ADVISORY BOARD OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

prof. Ing. Ján Sedliačik, PhD.
Ing. Rastislav Igaz, PhD.
doc. Ing. Zuzana Tončíková, ArtD.
Ing. Adrián Banski, PhD.
Ing. Anna Hazlingerová
doc. akad. sculptor. René Baďura
doc. Ing. Iveta Čabalová, PhD.
prof. Ing. Ladislav Dzurenda, PhD.
RNDr. Andrej Jankech, PhD.
prof. RNDr. Danica Kačíková, PhD., MSc.
prof. Ing. Ivan Klement, CSc.
doc. PaedDr. Ľuboš Krišťák, PhD.
doc. Ing. Rastislav Lagaňa, PhD. et PhD.
doc. Ing. Marek Potkány, PhD.
prof. Ing. Jozef Štefko, CSc.
Dr. h. c. prof. Ing. Mikuláš Šupín, CSc.
Ing. Veronika Veľková, PhD.

Invited:
Dr. phil. Mgr. Marek Ľupták - Head of the Department of Foreign Languages

II. EDUCATIONAL ACTIVITIES

II. 1. INTRODUCTION

In the academic year 2019/2020, The Faculty of Wood Sciences and Technology provided full-time and part-time education in the following disciplines and programmes:

Full-time form of study:

Degree of study	Field of study	Study programme
I.	Woodworking	Wood processing
		Creation and construction of furniture
		Management of woodworking and furniture production
		Wooden buildings
	Economics and Management	Economics and management of wood processing industry enterprises
	Security Sciences	Fire protection and safety
	Art	Furniture and interior design
II.	Woodworking	Wood Engineering
		Creation and construction of furniture
		Management of woodworking and furniture production
		Wooden buildings
	Economics and Management	Economics and management of wood processing industry enterprises
	Security Sciences	Fire protection and safety
	Art	Furniture and interior design
III.	Woodworking	Wood processing technology
		Structure and properties of wood
		Designs and processes for the manufacture of wood products
	Security Sciences	Fire protection and safety
	Art	Furniture and housing design

External form of study:

Degree of study	Field of study	Study programme
I.	**Woodworking**	Construction of wooden buildings and furniture - Volyně
		Furniture production
		Creation and construction of furniture
		Design and construction of furniture - Volyně
		Wooden buildings
		Wooden buildings - Volyně
	Economics and Management	Business management in DSP
		Economics and Business Management DSP
	Security Sciences	Fire protection and safety
II.	**Woodworking**	Wood Engineering
		Creation and construction of furniture
		Wooden buildings
	Economics and Management	Business management in DSP
		Economics and Business Management DSP
	Security Sciences	Fire protection and safety
III.	**Woodworking**	Wood processing technology
	Woodworking	Structure and properties of wood
	Woodworking	Designs and processes for the manufacture of wood products
	Security Sciences	Fire protection and safety
	Art	Furniture and housing design
	Woodworking	Wood processing technology

II. 2. NUMBERS OF STUDENTS IN STUDY PROGRAMMES I. A II. GRADE

The numbers of enrolled students by programmes, fields, degrees, years and forms of study are shown in Tables 1.1, 1.2.

Table 1.1 Number of students enrolled in full-time studies in the academic year 2019/2020

full-time study

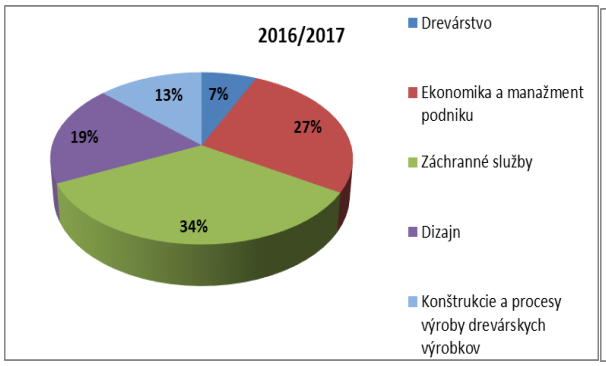
Department/Programme	Vintage				Total
	1.	2.	3.	4.	
I. level of study					
Department: woodworking					
Wood processing	5	2	4		11
Creation and construction of furniture	20	3	12		35
Management of woodworking and furniture production	1	1	2		4
Wooden buildings	42	26	14		82
Total Department of Woodworking	**68**	**32**	**32**		**132(122)**
Department: economics and management					
Economics and Business Management DSP	**49**	**25**	**36**		**110(128)**
Department: security sciences					
Fire protection and safety	**82**	**56**	**52**		**190(192)**
Department: art					
Furniture and interior design	**34**	**25**	**17**	**28**	**104(103)**
Total I. level	***233(222)***	***138(158)***	***137(140)***	***28(25)***	***536(545)***
II. level of study					
Department: woodworking					
Wood Engineering	5	4			9
Creation and construction of furniture	7	6			13
Management of woodworking and furniture production	0	0			0
Wooden buildings	22	22			44
Total Department of Woodworking	**11**	**11**			**66(60)**
Department: economics and management					
Economics and Business Management DSP	**37**	**41**			**78(99)**
Department: security sciences					
Fire protection and safety	**29**	**41**			**70(88)**
Department: art					
Furniture and interior design	**10**	**16**			**26(33)**
Total Level II	***110(138)***	***130(142)***			***240(280)***
Full-time study total	**343(360)**	**268(300)**	**137(140)**	**28(25)**	**776(825)**

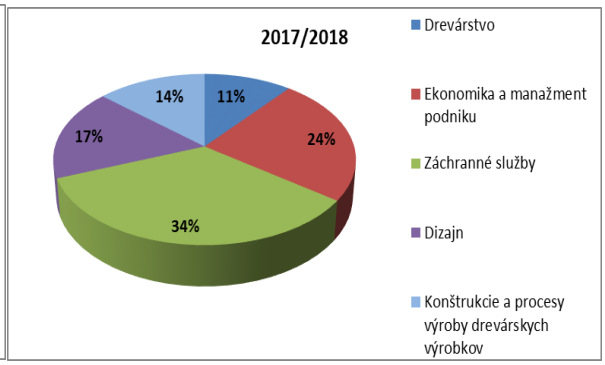
Status as of 31.10.2019

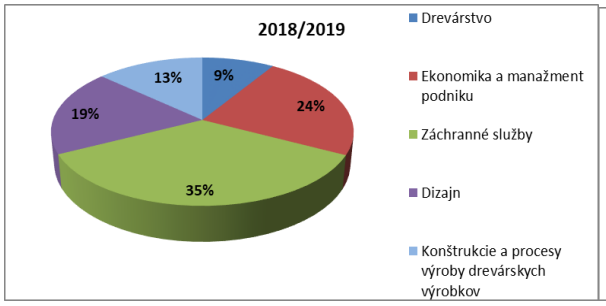
Note: Figures in brackets are from the previous year.

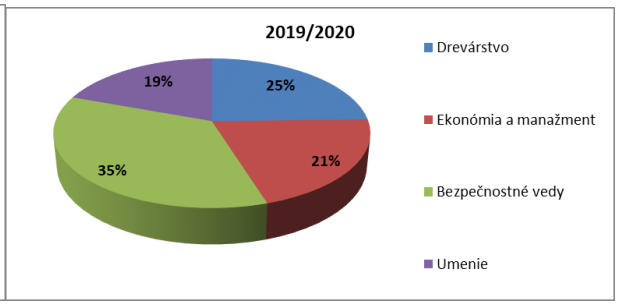
Overview of the percentage share of the number of **full-time** students in the 1st and 2nd cycle of study by disciplines at the Faculty of Wood Sciences and Technology in the academic years 2016/2017, 2017/2018, 2018/2019, 2019/2020.

Level I









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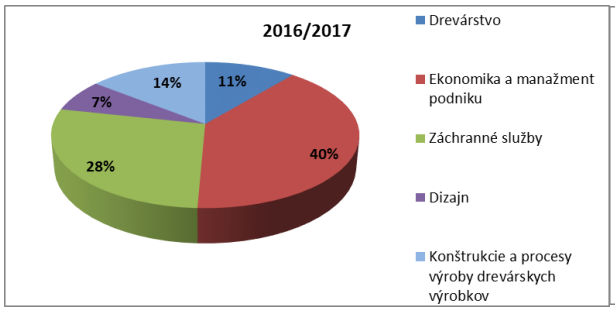
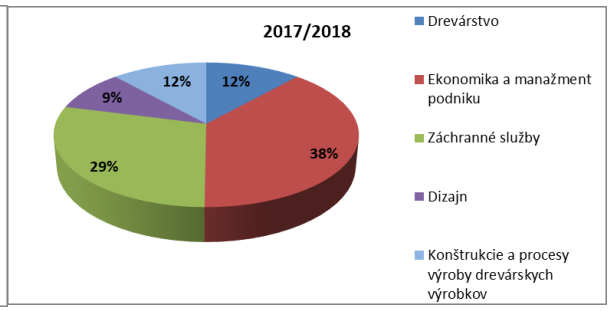
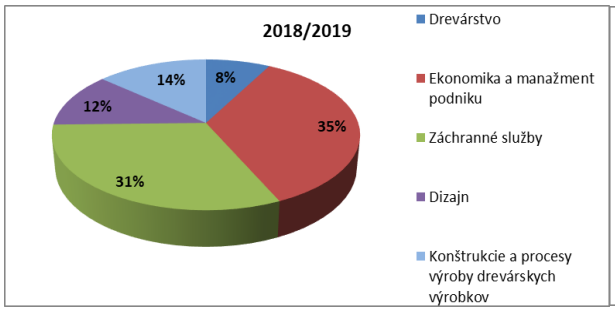






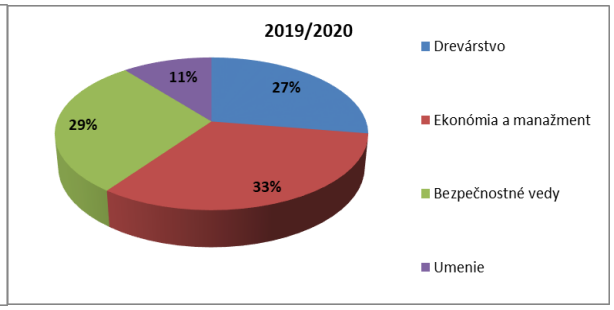


Table 1.2 Number of students enrolled in the external form of study in the academic year 2019/2020

external study

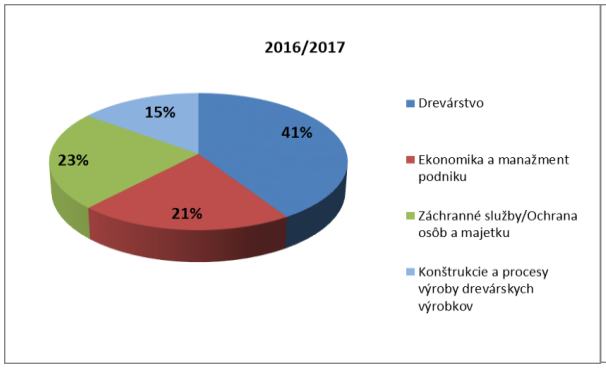
Department/Programme	Vintage				Total
	1.	2.	3.	4.	
I. level of study					
Department: WOODWORKING					
Construction of wooden buildings and furniture - Volyně	0	0	0	4	4
Creation and construction of furniture	5	4	5	2	16
Design and construction of furniture - Volyně	4	3	1	3	11
Wooden buildings	20	9	4	2	35
Wooden buildings - Volyně	19	15	7	7	48
Total Department of Woodworking	**48**	**31**	**17**	**18**	**114(105)**
Department: security sciences					
Fire protection and safety	**18**	**6**	**16**	**7**	**47(52)**
Department: economics and management					
Business management in DSP	**-**	**-**	**1**	**0**	**1**
Economics and management of wood processing industry enterprises	**13**	**5**	**11**	**6**	**35**
Total	**13**	**5**	**12**	**6**	**36(40)**
Total I. level	***79(84)***	***42(49)***	***45(27)***	***31(37)***	***197(197)***
II. level of study					
Department: WOODWORKING					
Wood Engineering	0	0	0	-	0
Creation and construction of furniture	0	0	5	-	5
Wooden buildings	5	3	5	-	13
Total Department of Woodworking	**5**	**3**	**10**	**-**	**18(20)**
Department: economics and management					
Economics and management of wood processing industry enterprises	**0**	**9**	**6**	**-**	**15(31)**
Department: security sciences					
Fire protection and safety	**11**	**2**	**9**	**-**	**22(17)**
Total Level II	***16(19)***	***14(24)***	***25(25)***	***-***	***55(68)***
External study total	**95(103)**	**56(73)**	**70(52)**	**31(37)**	**252(265)**

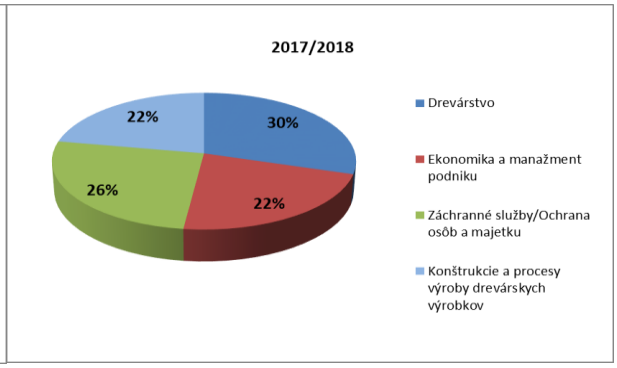
Status as of 31.10.2019

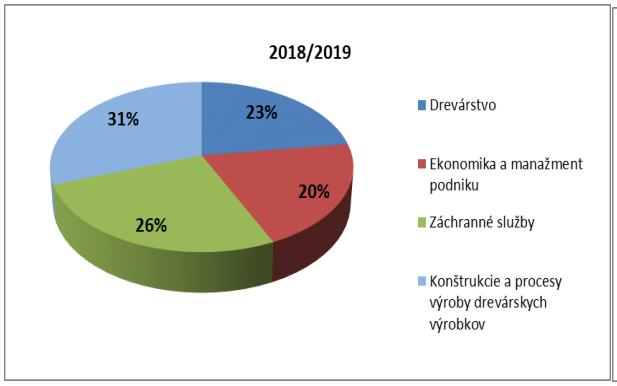
Note: Figures in brackets are from the previous year.

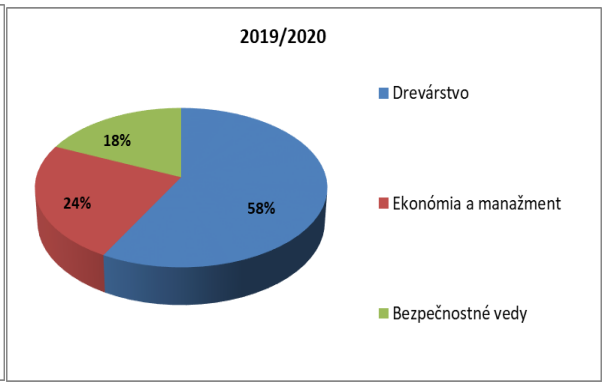
Overview of the percentage share of the number of students in **the external** form of study in the 1st and 2nd cycle by disciplines at the Faculty of Wood Sciences and Technology in the academic years 2016/2017, 2017/2018, 2018/2019, 2019/2020.

I. Grade

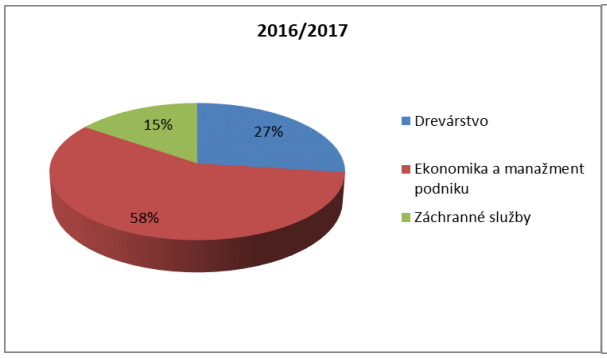


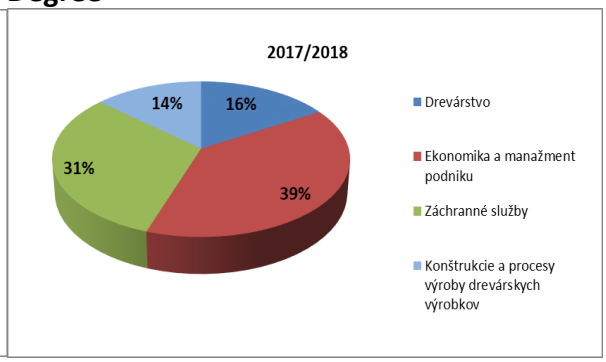


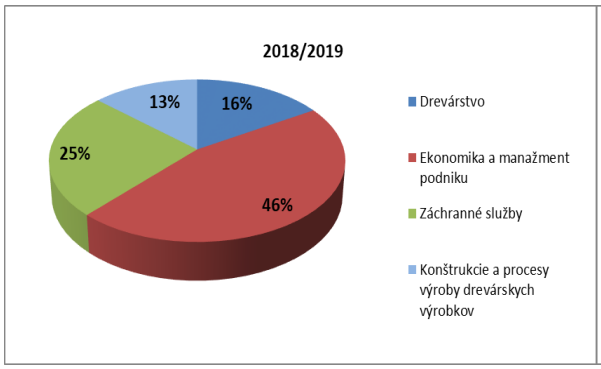




II. Degree







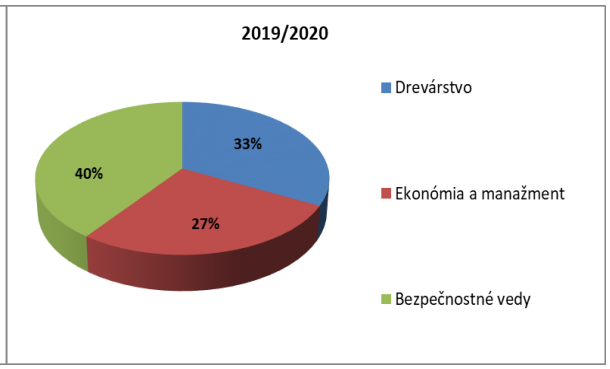


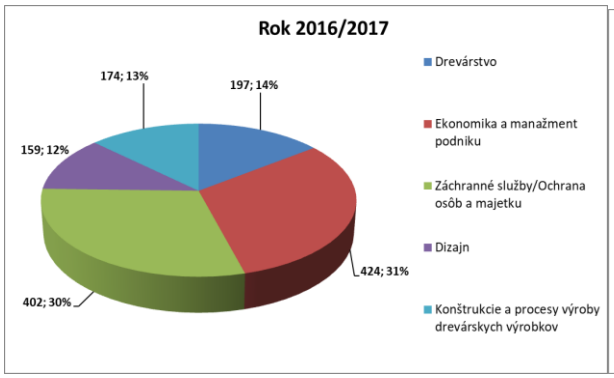
Table 1.3 Overall statistics on the number of students enrolled at the Faculty of Wood Sciences and Technology in the academic year 2019/2020

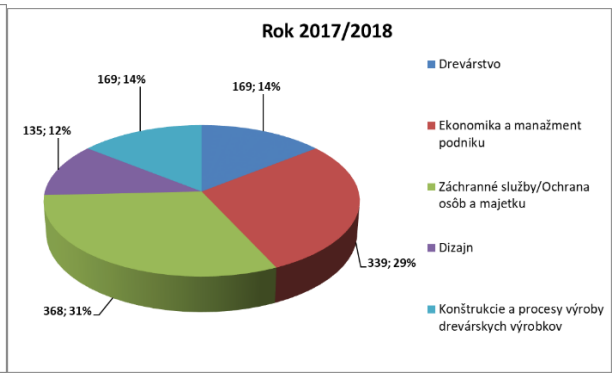
	Vintage				Total
	1.Bc + 1.Ing	2.Bc + 2.Ing	3.Bc	4.Bc	
Full-time + external study	1.Bc 312(306) 1.Ing 126(157)	2.Bc 180(207) 2.Ing 144(166)	3.Bc. 182(187) 3.Ing. 25(25)	59(62)	1 028(1 090)

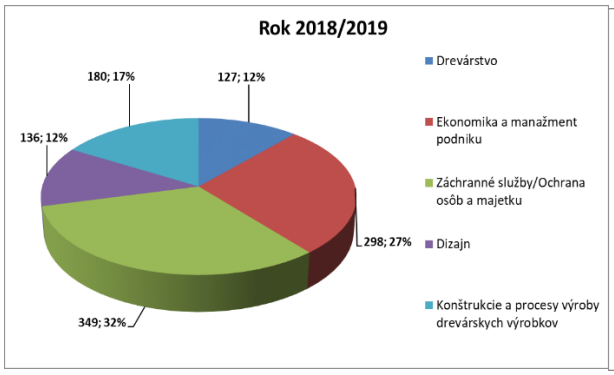
Faculty	Full-time form of study				External form of study				TOTAL
	Grade				Grade				
	1.	2.	3.	Total	1.	2.	3.	Total	
DF	536(545)	240(280)	21(27)	797(852)	197(197)	55(68)	9(9)	261(274)	1058(1 126)

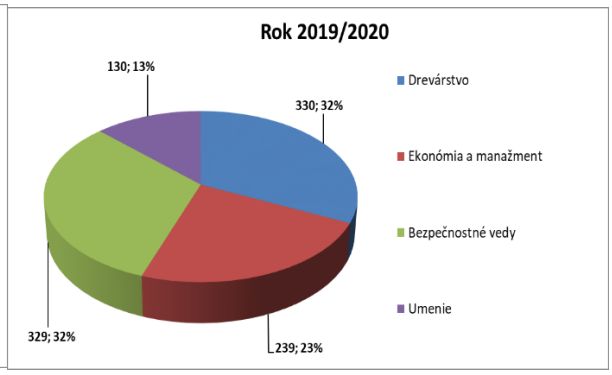
Status as of 31.10.2019
Note: Figures in brackets are from the previous year.

Overview of the percentage share of the total number of **full-time** and **part-time** students in the 1st and 2nd cycle of study by disciplines at the Faculty of Wood Sciences and Technology in the academic years 2016/2017, 2017/2018, 2018/2019 and 2019/2020.









The total number of enrolled students studying at The Faculty of Wood Sciences and Technology decreased by 55 students (-6.5%) in full-time students and by 13 students (-4.7%) in part-time students compared to the previous year. The negative development is caused by the demographic development in Slovakia, the significant departure of students to study abroad and the general lack of interest in studying technical fields. There is a slight increase in the number of students in the field of Wood Engineering. In 2019, the Construction and Processes of Wood Products Manufacturing department was merged with the Woodworking department.

The total number of students in all levels and forms of study was 1058, which is a decrease of 6% compared to the previous academic year (7.6% a. y. 2018/2019).

II. 3. ASSESSMENT OF LEARNING OUTCOMES

Achievements in AY 2019/2020 can also be assessed by the number of students (Table 2.1) who met the conditions for enrolment in the higher year in AY 2019/2020.

Table 2.1 Number of students in the academic year 2020/2021 as of 16.10.2020

Vintage	Number of students (active)	Interrupted	Abandonment for acad. year 2019/2020
Full-time study			
Level I			
1.	214	5	69
2.	141	1	34
3.	113	2	29
4.	25	1	5
Level II			
1.	112	3	7
2.	103	1	6
Total Full-time study	**708(784)**	**13(8)**	**150(151)**
External study			
Level I			
1.	91	3	45
2.	22	2	6
3.	36	1	8
4.	42	3	4
Level II			
1.	24	-	4
2.	12	-	-

3.	15	-	-
Total External study	**242(264)**	**9(4)**	**71(56)**
Total DŠ+EŠ	**950(1035)**	**22(12)**	**221(207)**

Status as of 16.10.2020
Note: Figures in brackets are from the previous year.

Tables 1.1, 1.2 and 2.1 show that out of 233 full-time students of the 1st year of the 1st cycle of studies in the academic year 2019/2020, 141 students are continuing their studies in the 2nd year of the 1st cycle of studies (in the academic year 2020/2021), 6 have interrupted their studies, the others have been excluded due to failure to meet the conditions for advancement to a higher year. 92 students did not progress to the 2nd year, which is 39.5% (in the previous academic years it was 37.8%, 37.5%, 37.7%).

Of the 138 Year 2 students in AY 2019/2020, 113 (in AY 2020/2021) entered Year 3, a decrease of 18.1% (previous AYs were 13.3%, 13.6%, 19.6%) This is the number of Year 3 students excluding students in the extra-length course.

There are 42 students enrolled in the 4th year of 2020/2021.

Out of 110 full-time students of the 1st year of the 2nd year of the 2nd degree in the academic year 2019/2020, 7 students did not progress to the 2nd year of the 2nd degree in the academic year 2020/2021.

Out of 79 students of the external form of study of the 1st year of the 1st degree in the academic year 2019/2020, 45 students did not progress to the 2nd year (in the academic year 2020/2021), which is 56.9% (in previous years 50%, 40%, 46.3%). Of the 42 students in Level I, Year 2 in AY 2019/2020, 6 students did not progress to Year 3 (in AY 2020/2021), which is 14.3% 8.2% (previous years 8.2%, 6.9%, 10.6%). Out of 45 students of the external form of study of the 1st degree of the 3rd year in the 2019/2020 academic year, 3 students did not advance to the 4th year. Out of 16 students of the external form of the II. degree 1 in the academic year 2019/2020 did not progress to the 2nd year of the II. degree in the academic year 2020/2021 - 4 students. All students advanced to the third year of the second cycle.

The total number of leavers for AY 2019/2020 - 221, which is 21.5% (19%, 14.9%, 22.8% in previous AYs).

DF students achieve the educational outcomes shown in Table 2.2.

Motivation for better student performance is also possible support through a system of incentive scholarships.

Table 2.2 Weighted study average achieved

	2018/2019 Weighted study average/exam retake index	**2019/2020 Weighted study average/exam retake index**
Bc.	2,45/1,56	2,44/1,5
Ing.	1,99/1,24	2,04/1,26

The system of student support is also provided in the form of various types of scholarships in accordance with applicable legislation and internal regulations of TU Zvolen. Students have the opportunity to receive social, motivational, benefit and extraordinary scholarships.

The social scholarship is intended for full-time students of 1st and 2nd degree studies at a university based in Slovakia. When calculating the amount of the scholarship, the total income of the jointly assessed persons is taken into account. The social grant may be awarded only to students whose family income is close to the minimum subsistence level.

The incentive scholarship is awarded to students studying in first or second degree programmes and is assessed according to the quality of the academic results achieved in the courses taken.

Motivational Extraordinary Scholarship can be awarded to all students of TU Zvolen who have achieved outstanding results in the field of studies (Rector's Award, Dean's Award), in professional, scientific, research or sports activities or have successfully represented the University or
faculty at important national or international events.

An overview of the selected scholarships paid to students of the Faculty of Wood Sciences and Technology for the academic year 2019/2020 is presented in Table 2.3.A total of € 85 885 was paid to 268 students without a social scholarship.

Table 2.3 Scholarships at the Faculty of Wood Sciences and Technology in the academic year 2019/2020

Incentive benefit		Motivational extraordinary		Motivational (research)		Motivational Union	
Number of students	Amount paid	Number of students	Amount paid	Number of students	Amount paid	Number of students	Retrieved from Amount
90	33 200 €	31	4 785 €			110	33 550 €

Social grant		Dean's Award		Rector's Award		Motivational (sports)	
Number of students	Amount paid	Number of students	Amount paid	Number of students	Amount paid	Number of students	Retrieved from Amount
48	66 580 €	25	5 650 €	11	8 600 €	1	100 €

II. 4. EVALUATION OF THE MAIN EXERCISES AND EXCURSIONS

The main exercises and excursions in the academic year 2019/2020 were prepared in accordance with the plan. In the academic year 2019/2020, the main exercises were carried out only in the WL, they were not carried out in the LS due to COVID_19.

The main exercises were attended by students of the second and third year of the first cycle of studies (Woodworking, Security Sciences, Art) and students of the second cycle of studies of Woodworking, Security Sciences.

The students visited the companies IKEA Industry Slovakia, o. z. Majcichov, IKEA Industry Slovakia, o. z. Trnava, IKEA Industry JASNÁ Jasná, Obecný podnik lesov, spol. s r. o. Poniky, Rettenmeier Liptovský Hrádok, Ekoltech, s.r.o. Fiľakovo, PRP, s.r.o. Tomášovce, LUKAMASIV, s.r.o. Kriváň, Kontrakting krov hrou, s.r.o, Žilina, Mintál, s.ro. Sielnica, JAF Holz Slovakia, s.r.o. Sielnica, DOKA DREVO - Banská Bystrica, KRONOSPAN Jihlava - Czech Republic, VŠLP Lieskovec, Rescue Brigade HaZZ Žilina, Secondary School of Fire Protection of the Ministry of Interior of the Slovak Republic Považský Chlmec, Hornonitrianske bane Prievidza, Main Mining Rescue Station, o. z. - Prievidza, MONDI SCP Ružomberok, Bučina DDD Zvolen, Transpetrol, a. s. Tupá, SLOVALCO, a.s. Žiar nad Hronom, Institute for the execution of detention and the Institute for the execution of punishment in Banská Bystrica, OS HZS Západné Tatry - Zverovka, Zuberec, Horská záchran. Service - Chopok - Sever Jasná, Integrated Security Centre of the Moravian-Silesian Region -

Ostrava Czech Republic, POB students took part in an exercise in the area of the training centre LEŠŤ.

II. 5. NUMBERS OF GRADUATES AND EVALUATION OF STATE EXAMINATIONS AND THESIS DEFENCES

The numbers of graduates (1st cycle, 2nd cycle) of the Faculty of Wood Sciences and Technology in the academic year 2019/2020 are in Table 4.1

Table 4.1 Graduates of the Faculty of Wood Sciences and Technology in the academic year 2019/2020

	Faculty of Wood Sciences and Technology	Number of participants	Benefited	of which benefited with distinction	Do not pass
I. st.	Full-time study	144	124	10	20
	External study	30	28	1	2
	Total ES + ES	**174(155)**	**152(141)**	**11(3)**	**22(14)**
II. st.	Full-time study	124	120	17	4
	External study	23	22	3	1
	Total ES + ES	**147(162)**	**142(160)**	**20(23)**	**5(2)**

Note: Figures in brackets are from the previous year.

State examinations for the SP in the academic year 2019/2020 were held according to Annex No. 2 of the Study Regulations of the Faculty of Wood Sciences and Technology, namely the state examination - defence of the final thesis and the state examination in the field of knowledge of the field of study.

The guarantors of the SP have prepared new questions for the colloquial exam for each thematic unit.

In the 2019/2020 academic year, students participated in the state examinations of the first cycle of studies on the following dates:

<u>06.07.2020-10.07.2020 in disciplines and programmes:</u>

- full-time study (140 students)

Woodworking - Furniture creation and construction (11) - Wood processing (4) - Wood and furniture production management (1) - Wooden buildings (14),
Safety Sciences - Fire Protection and Security (67),
Economics and Management - Economics and management of wood processing industry enterprises (31),
Art - Furniture and Interior Design (12),

- external study (29 students)

Woodworking - Construction of wooden buildings and furniture in Volyn (4), - Creation and construction of furniture (2), - Creation and construction of furniture in Volyn (3), - Wooden buildings (3), Wooden buildings in Volyn (7)
Safety Sciences - Fire Protection and Safety (4), Economics and Management - Economics and Management of Wood Processing Industry Enterprises (6),

<u>24.08.2020-28.08.2020 in disciplines and programmes:</u>

- full-time study (51 students)
Woodworking -Creation and construction of furniture (4), - Wooden buildings (4)
Economics and Management - Economics and management of wood processing industry enterprises (6),
Art - Furniture and Interior Design (2),
Safety Sciences - Fire Protection and Security (35),
- external study (6 students)
Safety Sciences - Fire Protection and Security (3),
Woodworking - Creation and construction of furniture (1), - Wooden buildings (2)

In the 2019/2020 academic year, students took the state examinations of the second cycle of studies on the following dates:

22.06.2020-26.06.2020 in the field and programme:
- full-time study (123 students)
Woodworking - Creation and construction of furniture (6) - Wood engineering (4), - Wooden buildings (23),
Safety Sciences - Fire Protection and Security (36),
Economics and Management - Economics and management of wood processing industry enterprises (40),
Art - Furniture and Interior Design (14),
- external study (23 students)
Economics and Management - Economics and management of wood processing industry enterprises (6),
Safety Sciences - Fire Protection and Security (7),
Woodworking - Creation and construction of furniture (5) - Wooden buildings (5),

24.08.2020-25.08.2020 in the field and programme:
- full-time study (7 students)
Woodworking - Wooden buildings (3),
Safety Sciences - Fire Protection and Security (4),
- external study (4 students)
Safety Sciences - Fire Protection and Security (4).

During the state examinations and defences of diploma theses of engineering programmes in the first term, 26 committees worked. In the first term, 40 commissions worked in the state examinations and defences of bachelor theses, in the second term, 12 commissions worked together in the state examinations and defences of bachelor and master theses.

The evaluation of the state examinations - thesis defences by the chairs of the state examination committees showed that the level of presentations was at a sufficient level, as well as the answers to the questions. The quality of the diploma theses was at the required level, the students' own contribution was mainly appreciated. A certain problem is the possibility of obtaining data for the thesis from practice, especially for students dealing with issues in the economic field. The certificate of the originality of the thesis was taken into account in the thesis defences in accordance with the Higher Education Act. The certificate is a compulsory document for defences and is of a recommendatory nature.

State Examination Boards Bc. studies stated that most of the bachelor theses were processed in the form of a literature review. In some cases, there were problems with incorrect citation of literature, or a small number or only from domestic literary sources.

The overall assessment was positive. They recommend to increase the proportion of own contribution in bachelor theses.

The results of the state examination from the thematic units mostly corresponded with the results during the study and with the overall attitude of the student. Major gaps in knowledge were evident this year in Security Sciences, where overall the students had to retake the state examination for Bc. 38 students, of which 17 students failed even on the remedial term, in the field of Wood Science B_TKN 5 students repeated, of which 2 failed even on the remedial term, B_DS 5 students repeated, 1 failed on the remedial term, B_EMPDSP 3 students repeated, 1 failed on the remedial term, B_DNI 2 students repeated and in Ing. I_POB 9 students and 3 of them failed the remedial term, I_DS 2 students failed, 1 failed the remedial term.

Overall, compared to last year, it can be assessed that the level of students' knowledge has deteriorated. This is due to the quality of the students admitted and the knowledge acquired during their previous studies at secondary school and the students' lack of interest in studying and finding intrinsic motivation to perform well and, to some extent, to the more difficult conditions for preparation during the COVID_19 pandemic.

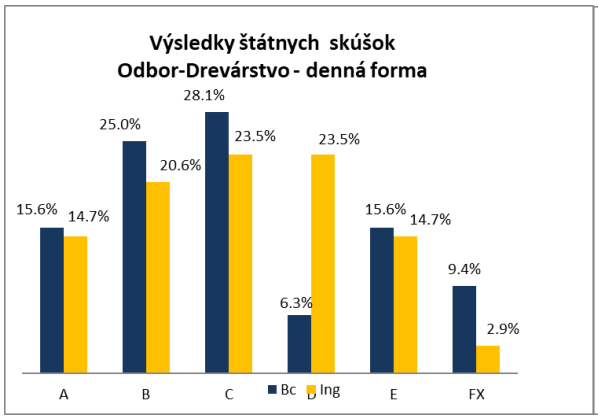
As part of the emergency measures caused by the COVID_19 pandemic, the DF was forced to postpone the handover dates of the PoCs and SPs. Despite this, the required experiments needed to complete the ToRs were completed, for which we thank both the ToR managers and the technical staff.

The conduct of the national examinations was also affected by the situation of COVID_19. The commissions had to comply with increased hygiene standards, which increased the duration of the national examinations and necessitated the need for more commissions (25% increase). On the positive side, however, the course of the CS was carried out by attendance, i.e. by contact.

The attached graphs show the average scores of the state examinations and final theses by field of study. Compared to last year, the results of the state examinations in all fields of study have deteriorated.

The members of the commissions made thorough and detailed records of the state examinations and the commissions took care to comply with the Study Regulations of the Faculty of Wood Sciences and Technology.

Evaluation of state examination results


Výsledky štátnych skúšok
Odbor-Drevárstvo - denná forma
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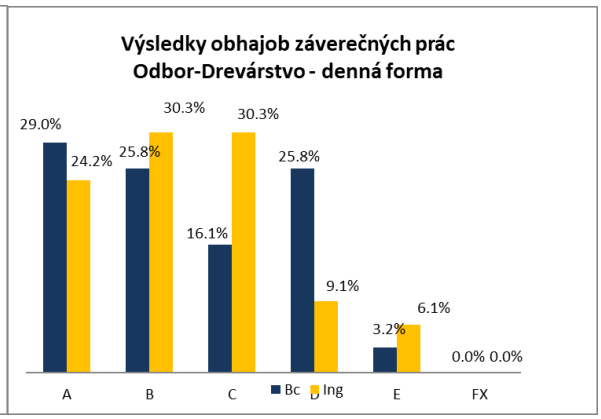
14.7%
25.0%
20.6%
28.1%
23.5%
6.3%
23.5%
15.6%
14.7%
9.4%
2.9%
A
B
C
D
E
FX
Bc
Ing


Výsledky obhajob záverečných prác
Odbor-Drevárstvo - denná forma
29.0%
24.2%
25.8%
30.3%
16.1%
30.3%
25.8%
9.1%
3.2%
6.1%
0.0%
0.0%
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FX
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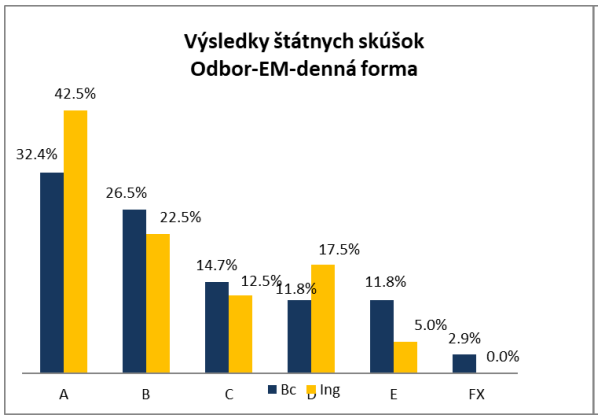
Výsledky štátnych skúšok
Odbor-EM-denná forma
32.4%
42.5%
26.5%
22.5%
14.7%
12.5%
11.8%
17.5%
11.8%
5.0%
2.9%
0.0%
A
B
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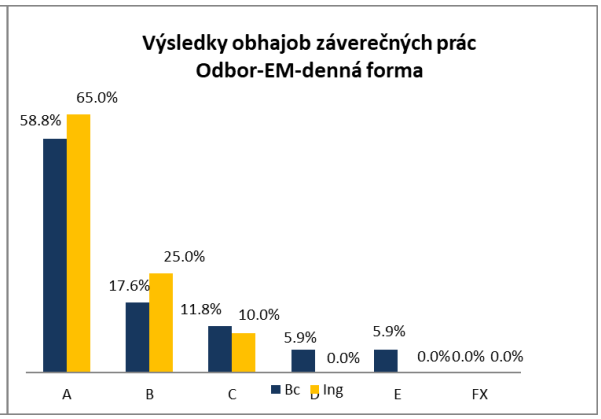
FX
Bc
Ing


Výsledky obhajob záverečných prác
Odbor-EM-denná forma
58.8%
65.0%
17.6%
25.0%
11.8%
10.0%
5.9%
0.0%
5.9%
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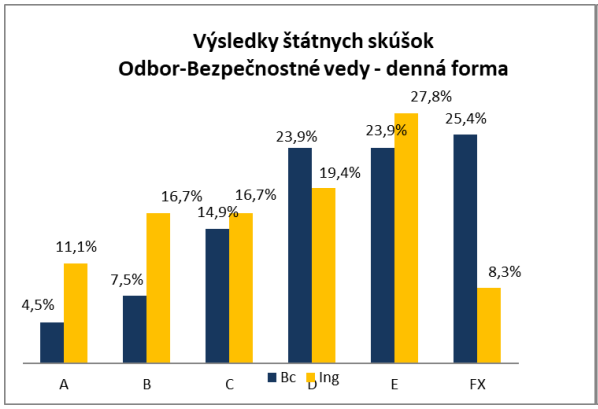
Ing


Výsledky štátnych skúšok
Odbor-Bezpečnostné vedy - denná forma
4,5%
11,1%
7,5%
16,7%
14,9%
16,7%
23,9%
19,4%
23,9%
27,8%
25,4%
8,3%
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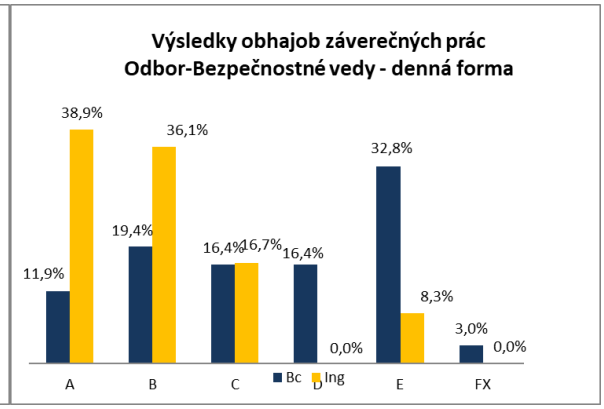
Výsledky obhajob záverečných prác
Odbor-Bezpečnostné vedy - denná forma
11,9%
38,9%
19,4%
36,1%
16,4%
16,7%
16,4%
0,0%
32,8%
8,3%
3,0%
0,0%
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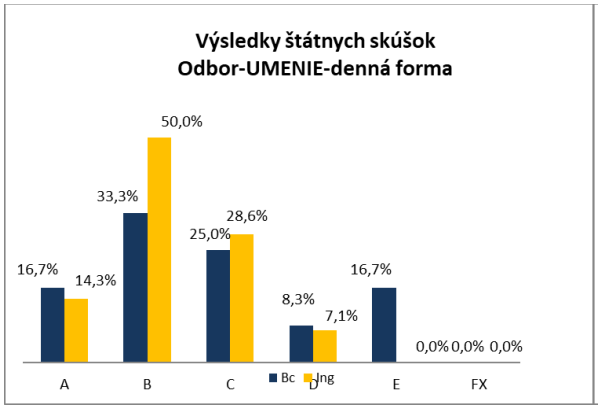
Výsledky štátnych skúšok
Odbor-UMENIE-denná forma
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14,3%
33,3%
50,0%
25,0%
28,6%
8,3%
7,1%
16,7%
0,0%
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A
B
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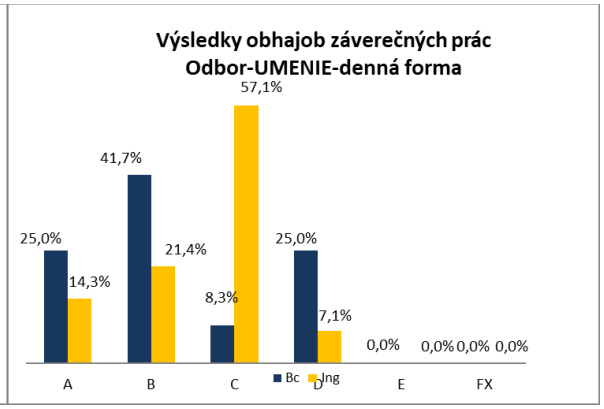
Výsledky obhajob záverečných prác
Odbor-UMENIE-denná forma
25,0%
14,3%
41,7%
21,4%
8,3%
57,1%
25,0%
7,1%
0,0%
0,0%
0,0%
0,0%
A
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FX
Bc
Ing

II. 6. EVALUATION OF ADMISSION PROCEDURES I. and II.

The admission procedure for the academic year 2020/2021 has been announced for all accredited study programmes. Admission examinations for full-time studies in the first cycle in the Furniture and Interior Design (Art) programme were held on 21 and 22 January 2020 with a talent examination, a test in fine arts, architecture and design and a test of technical creativity.

In the second stage of the School of Furniture and Interior Design, on 26.6.2020, an evaluation of the portfolio of the enrolled students and a personal interview of the candidates with the evaluation committee was carried out, which subsequently compiled the ranking of the candidates.

Without entrance examinations, on the basis of the evaluation of the results from secondary school, students were admitted to full-time and part-time studies in programmes of the first degree. Without entrance examinations, on the basis of an assessment of the relatedness of the field and the programme of studies completed at level I and an evaluation of the average of the results achieved during the bachelor's studies and the result of the state final examination and the defence of the bachelor's thesis, students were admitted to full-time and part-time study in level II programmes.

An overview of the projected enrolment numbers by study programme, enrolled, participating, admitted and enrolled students is given in Table 1. 66.3% (previous a. y. 77.5%, 85.1%, 76.6%) of the planned number of admissions applied for full-time study programmes accredited at the Faculty of Wood Sciences and Technology, which is a very negative phenomenon in terms of interest in studying at the Faculty of Wood Sciences and Technology. However, despite the market conditions for high school graduates, this situation has not changed significantly. Compared to the previous year, the number of enrolments has slightly increased.

In the full-time form of the first degree, the greatest interest in studying was in the programmes Furniture and Interior Design (the ratio of enrolled and admitted students was 1.66 (1.46 last year), Fire Protection and Safety 1.2 (1.33 last year). Compared to the previous year, this is a decrease in interest in the study programmes at the DF. The number of students enrolled in the full-time form of the second cycle of studies was similar to the number of graduates of the first cycle of studies.

In the external form, the interest in studying is generally decreasing, which is due to the charging of tuition fees and the extension of the standard length of study by one year. The planned numbers of students enrolled in the external form of the first and second cycle of studies were met at 54.7% (previous years: 47.2%, 47.5%, 33.1%). However, a slight increase in the number of prospective students can be assessed positively, as well as the number of enrolled students increased by 21 students compared to the previous academic year.

The number of full-time students enrolled was 91 (-21.7%) lower than the number of students admitted (-23.6% last year), which is consistent with the trend of previous years, and this was probably due to concurrent admissions to other colleges. The number of students enrolled in external studies was 20 (-14.9%) lower than the number of students admitted. In total, 441 students enrolled in study at the Faculty of Wood Sciences and Technology in the academic year 2020/2021 (444, 463, 539 previous a.y.) out of a total of 552 students admitted - 79% (77%, 76%, 79.6%, previous a.y.).

Despite the fact that admitted students have to confirm their interest in studying at the Faculty of Wood Sciences and Technology by return, in many cases this does not happen and ultimately the exact number of students enrolled for the academic year is only known after the student's physical enrolment. In this academic year, enrolments took place on two dates (July and September) due to the pre-enrolment of students at other universities and were also affected by the pandemic emergency, but were conducted in a contact manner.

In conclusion, the admissions process can be assessed **as positive overall**, despite the decline in enrolments. **The decrease is only -3 (0,7%) students, last year it was -4%.** There is a decrease of -10% (24 students) in the full-time first degree but this negative phenomenon has been compensated by a higher number of enrolled external students. The marketing activities directed to the promotion of studies at the Faculty of Wood Sciences and Technology are proving to be correct, but they need to be further intensified and directed to all disciplines.

As of 1 September 2019, the new system of fields of study of the Slovak Republic, in which the universities of the Slovak Republic can provide higher education, is effective. There has been a merger or renaming of the fields of study provided at the DF. All study programmes provided remain valid and are accredited in accordance with the accreditation process.

Original field	**New union**
Woodworking	Woodworking
Wood processing technology	
Structure and properties of wood	
Designs and processes for the manufacture of wood products	
Economics and business management	Economics and Management
Rescue services	Security Sciences
Design	Art

Tab. 5.1 Entrance examinations at The Faculty of Wood Sciences and Technology for acad. 2020/21

Study field/programme	Plan for adoption	Logged in	Attendees	Accepted	Enrolled
Full-time study					
Level I					
Department: WOODWORKING					
Wood processing with IT support	30	4		4	4
Creation and construction of furniture	30	30		30	26
Family business in the timber industry and furniture industry	20	5		5	1
Wooden buildings	**60**	**46**		**46**	**38(41)**
Total Department of **Woodworking**	**140**	**85**		**85**	**69(70)**
Department: ECONOMICS AND MANAGEMENT					
Economics and Business Management DSP	**100**	**57**		**57**	**37(51)**
Department: ART					
Furniture and interior design	**35**	**54**	**49**	**39**	**25(35)**
Department: SECURITY SCIENCES					
Fire protection and safety	**100**	**120**		**120**	**85(84)**
Total full-time study I. degree	***375***	***316(354)***	***49***	***301(342)***	***216(240)***
Level II					
Department: WOODWORKING					
Creation and construction of furniture	20	8		8	8
Wood Engineering	20	4		4	4
Management of woodworking and furniture production	20	0		0	0
Wooden buildings	**30**	**13**		**13**	**13(23)**
Production and Utilisation of Wood Products (taught in English)	10	0		0	0
Total Department of Woodworking	**100**	**25**		**25**	**25(35)**
Department: ECONOMICS AND MANAGEMENT					
Economics and Business Management DSP	**60**	**34**		**34**	**33(36)**
Department: ART					
Furniture and interior design	**15**	**8**	**8**	**8**	**6(10)**
Department: SECURITY SCIENCES					
Fire protection and safety	**60**	**50**		**50**	**47(30)**
Total full-time study II. degree	***235***	***117(119)***	***8***	***117(116)***	***111(111)***
Total full-time study	**610**	**433(473)**	**57**	**418(458)**	**327(351)**

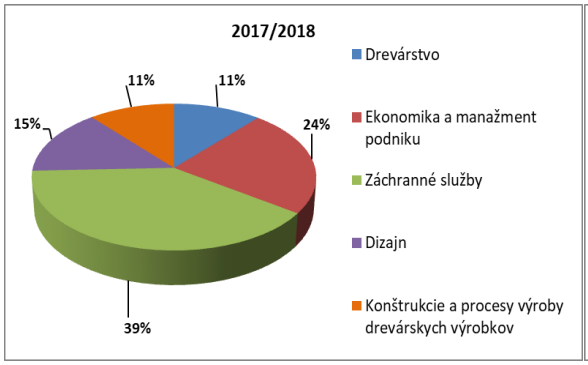
continued from tab. 5.1

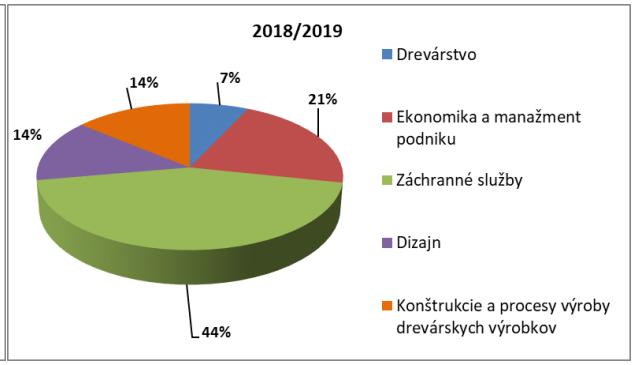
Study field/programme	Plan for adoption	Logged in	Attendees	Accepted	Enrolled
External study					
Level I					
Department: WOODWORKING					
Wood processing with IT support	10	0		0	0
Creation and construction of furniture	10	18		18	15
Design and construction of furniture - Volyně	20	11		11	11
Family business in the timber industry and furniture industry	10	1		1	0
Wooden buildings	15	16		16	13
Wooden buildings - Volyně	20	22		22	20
Total Department of Woodworking	**85**	**68**		**68**	**59(48)**
Department: ECONOMY AND MANAGEMENT					
Economics and Business Management DSP	**40**	**10**		**10**	**9(12)**
Specialisation: SECURITY SCIENCES					
Fire protection and safety	**40**	**29**		**29**	**22(17)**
Total external study I. degree	***165***	***107(97)***		***107(97)***	***90(77)***
Level II					
Department: WOODWORKING					
Management of woodworking and furniture production	10	0		0	0
Creation and construction of furniture	10	0		0	0
Wood Engineering	10	1		1	0
Wooden buildings	**10**	**6**		**6**	**6(5)**
Total Wood processing	**40**	**7**		**7**	**6(5)**
Department: ECONOMY AND MANAGEMENT					
Economics and Business Management DSP	**20**	**8**		**8**	**8(1)**
Specialisation: SECURITY SCIENCES					
Fire protection and safety	**20**	**12**		**12**	**10(10)**
Total external study II. degree	***80***	***27(20)***		***27(20)***	***24(16)***
Total external study	**245**	**134(117)**		**134(117)**	**114(93)**
Full-time and part-time study together					
Level I	**540**	**423(421)**	**49(55)**	**408(439)**	**306(317)**
Level II	**315**	**144(139)**	**8(19)**	**144(136)**	**135(127)**
DF	**855**	**567(560)**	**57(74)**	**552(575)**	**441(444)**

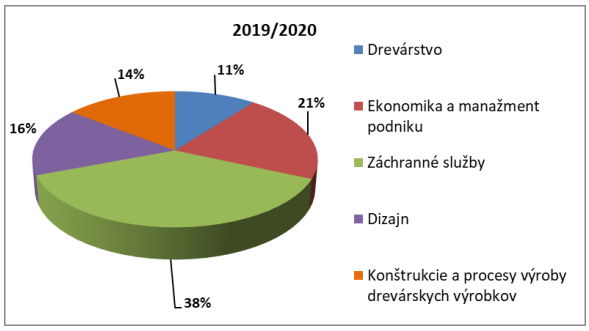
Note: Figures in brackets are from the previous year.

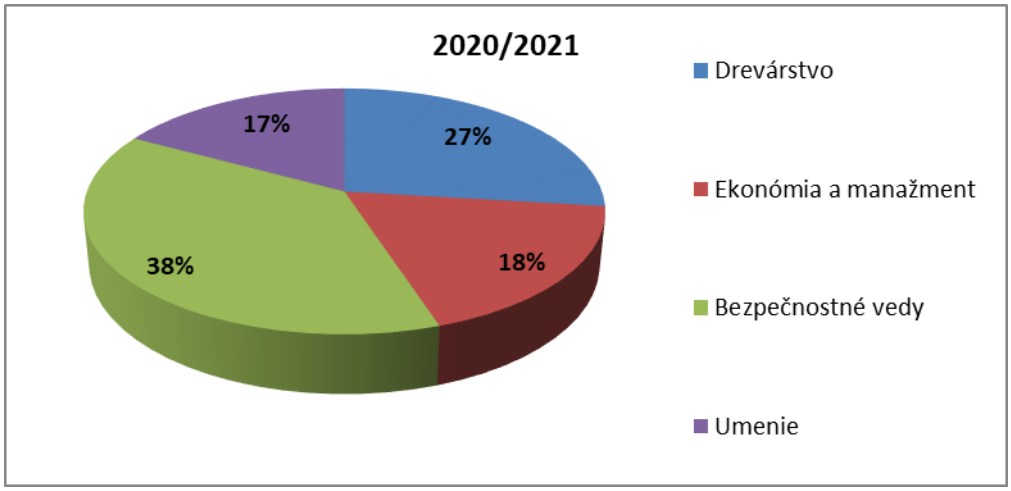
Total interest of all enrolled students in studying at the Faculty of Wood Sciences and Technology in the first cycle according to the enrolment in the field of study.

I. degree full-time study

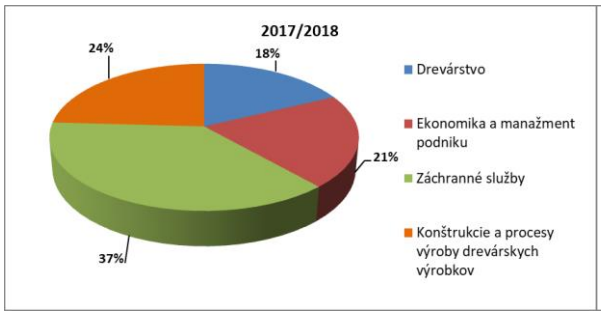


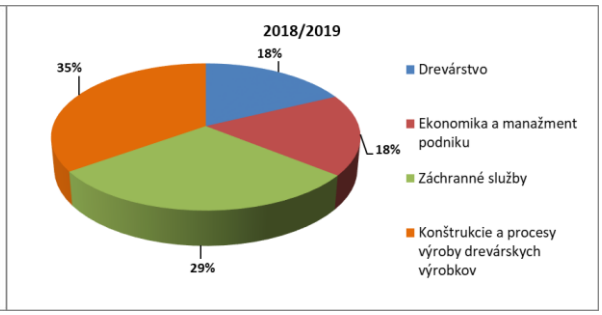


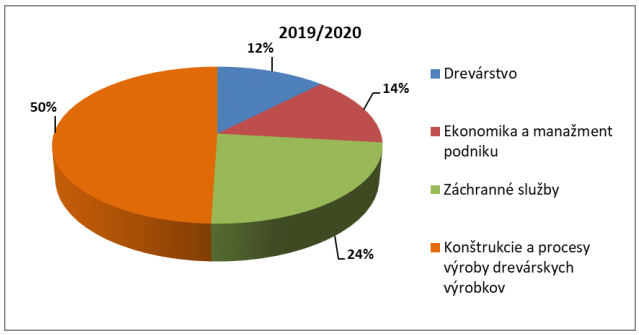


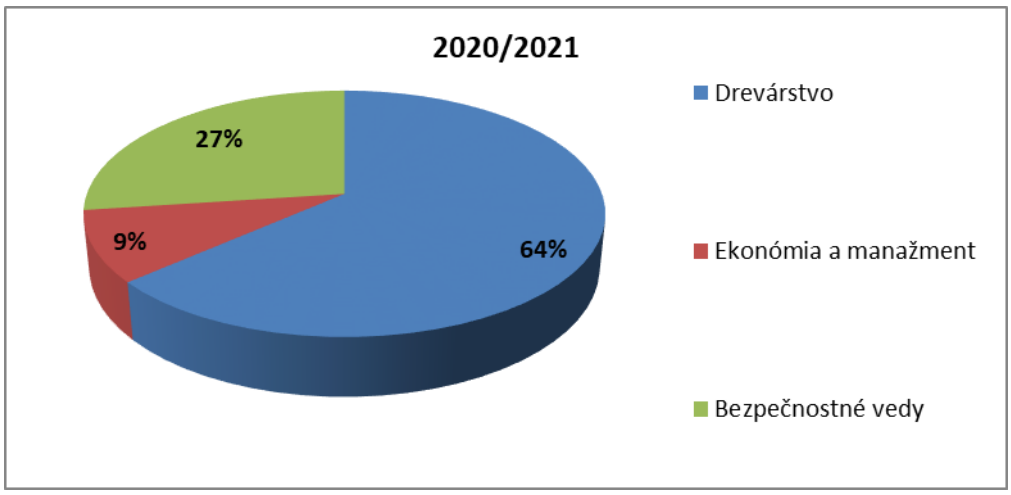


I. degree external study



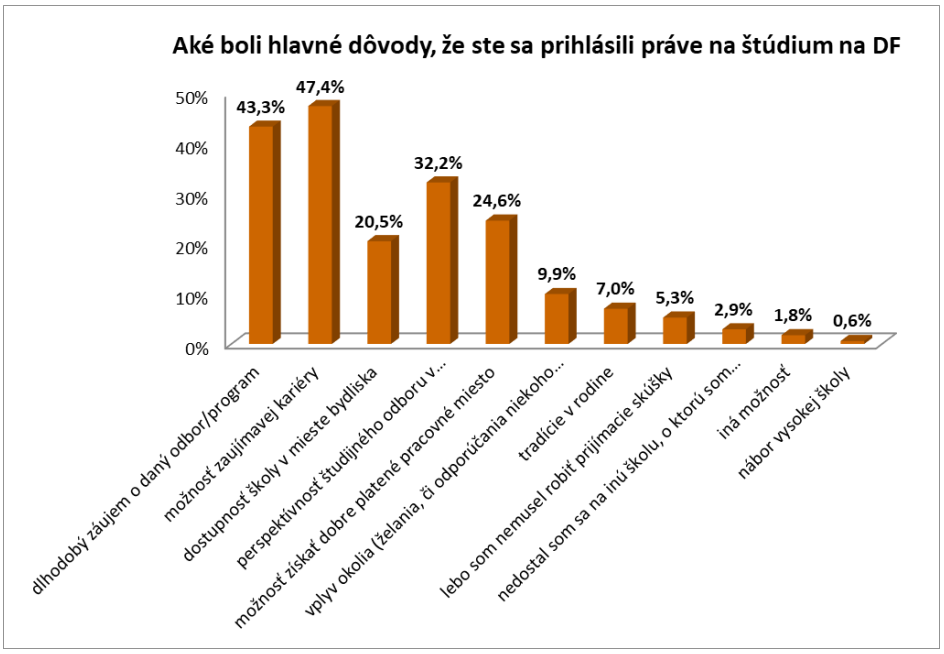




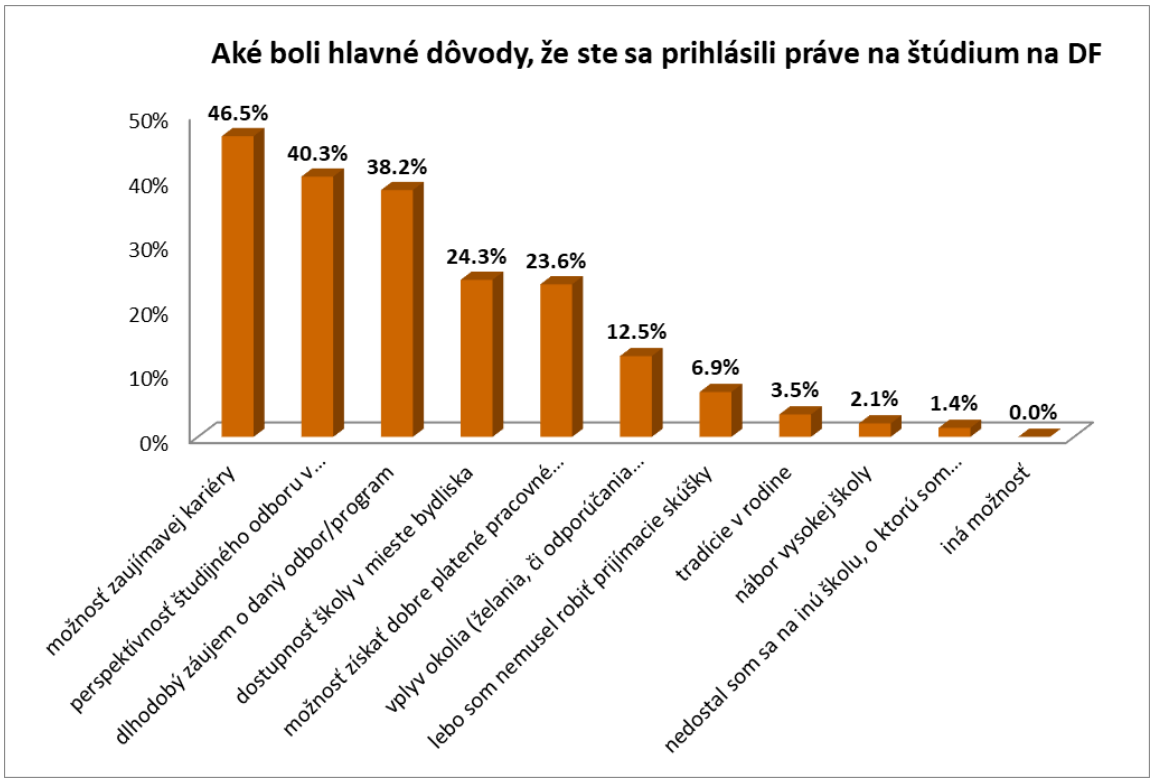


In the following section, the results of the questionnaire filled in by first year students of the first cycle of studies when enrolling for studies are processed. A total of 171 respondents answered the questionnaire. From the individual responses it is possible to ask questions and formulate answers on where to direct e.g. the marketing activities of the faculty in order to increase interest in studies.

YEAR 2019

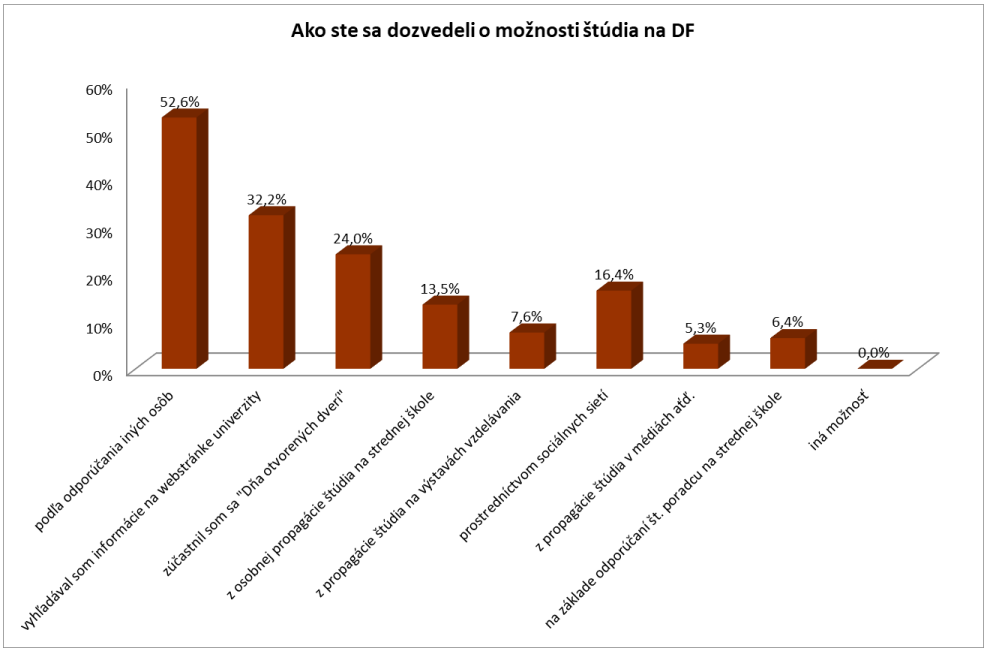


Year 2020

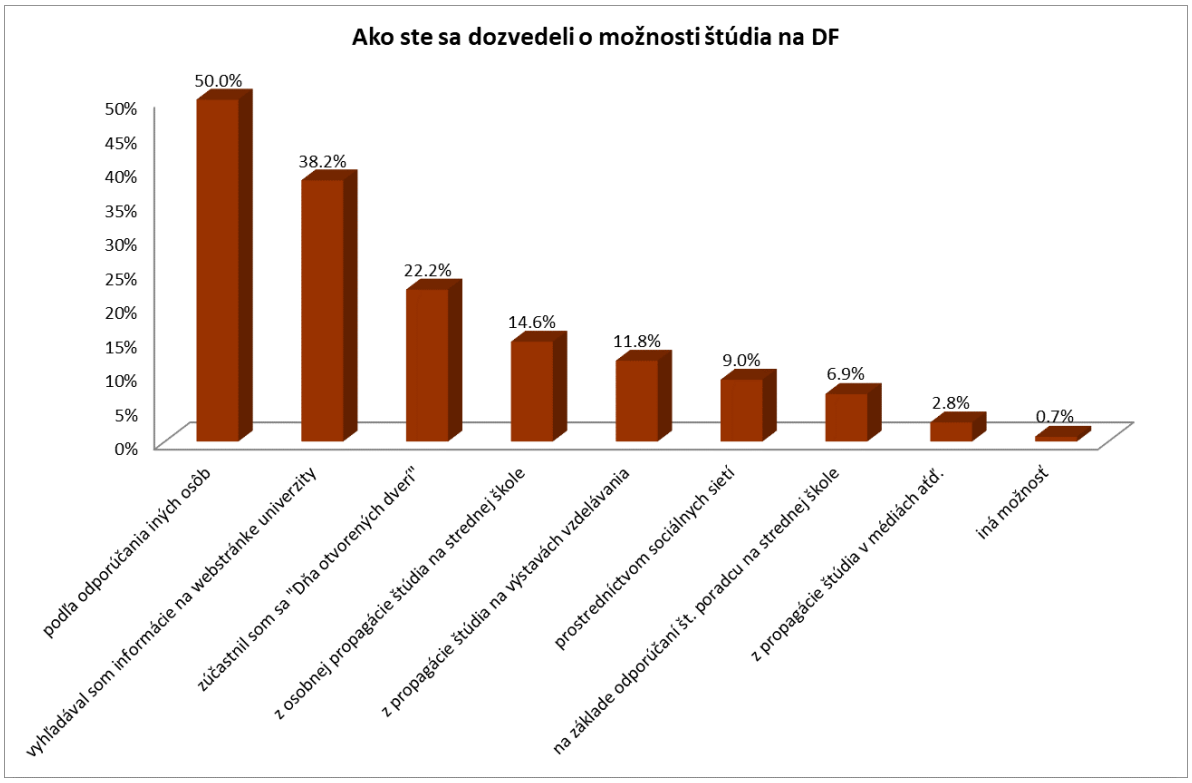


The answer "the possibility of an interesting career and a long-term interest in the field" are good signals for the DF in the future perspective of those interested in studying it.

Year 2019



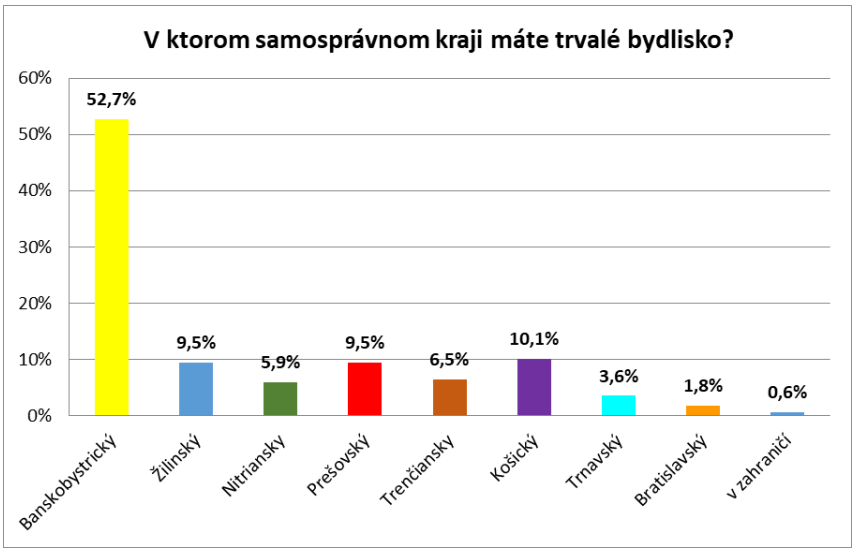
Year 2020



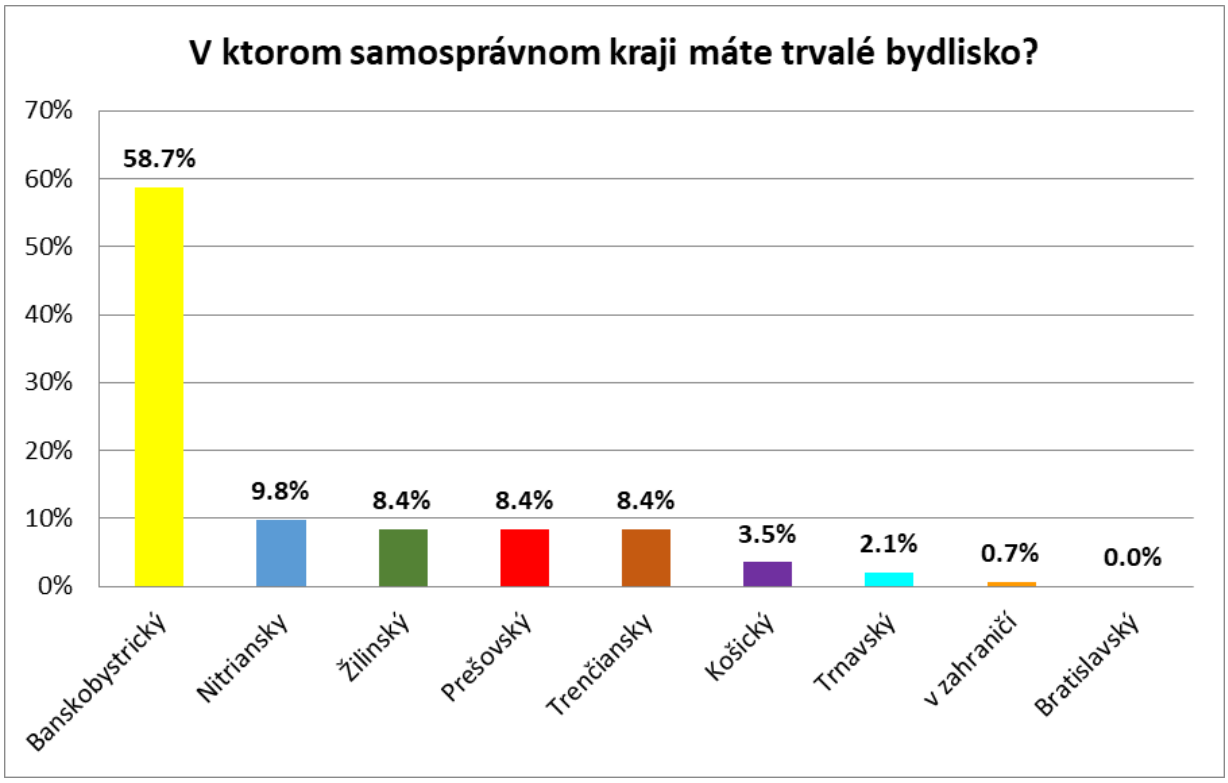
A very important factor that influences a potential candidate's decision is the recommendation of another person and therefore only a positive experience from the DF environment. Any negative mention has the effect of making the candidate unsure and looking for an alternative.

Continuous attention needs to be paid to the content of the DF website and the promotion on social networks, which still shows an interesting percentage of the share.

Year 2019



Year 2020



The 6% increase in the BB region's share is a signal that DF is becoming dependent on the region's graduates. For the next year, attention should be paid to promoting DF nationwide, not just in the region. Planned events at education fairs across the country are and will be cancelled in 2021 due to the COVID_19 situation, so it is even more important to move all promotion to the online space.

II. 7. STUDENT NUMBERS AND EDUCATIONAL ACTIVITIES IN STUDY PROGRAMMES III. GRADE

In the third level of study, six study programmes in six fields of study are currently accredited at The Faculty of Wood Sciences and Technology:
- in the field of Woodworking study programme Wood Processing Technology,
- in the field of Wood Engineering program Structure and Properties of Wood,
- in the field of Woodworking study programme Designs and processes of wood products production,
- in the field of Protection of Persons and Property study programme Fire Protection and Security (catching up),
- in the field of Security Sciences study programme Fire Protection and Security,
- in the field of Art study programme Furniture and Housing Design.

The change of the field of study with effect from 1.9.2019 is listed on page 18.

The admission procedure takes the form of a written test in a foreign language and a personal interview before an admissions committee consisting of members of the relevant Degree III Board of Studies.

Doctoral studies at the Faculty of Science and Arts are governed by disciplinary committees in 6 fields of doctoral studies, whose members have been approved by the Scientific and Artistic Board of the Faculty of Wood Sciences and Technology. According to the current regulations, full-time study lasts 3 years, part-time study 4 years and 5 years in catch-up study programmes. After a successful defence, the graduate of the study receives the academic degree "PhD." (philosophiae doctor) or "ArtD. (artis doctor).

An overview of the number of students by year is given in Table 6.1, and an overview of the number of students by discipline and programme is given in Table 6.2.

The international students are two from the Czech Republic and one student each from Ukraine and Austria.

Table 6.1 Overview of the number of students in PhD studies in the third cycle by year and form of study in the academic year 2019/2020 (as of 31 October 2019)

Vintage	Form of study		Number of students	
	Daily	External	Together	of which foreign
1st year	6	1	7	0
2nd year	8	3	11	0
3rd year	7	0	7	0
4th year		3	3	0
5th year		2	2	0
Total	**21** (27)	**9** (9)	**30** (36)	**0** (4)

Note: Figures in brackets are from the previous year.

Table 6.2 Overview of the number of PhD III students by fields and programmes in the academic year 2019/2020 (as of 31.10.2019)

Study programme	Number of students (form of study)						
	Total	Total		of which Newcomers		of which Foreign	
		Daily	External	Daily	External	Daily	External
Wood processing technology	6	5	1	1	0	-	-
Structure and properties of wood	1	1	0	0	0	-	-
DV design and manufacturing processes	8	5	3	2	0	-	-
Fire protection and safety	6	4	2	0	0	-	-
Fire protection and safety	1	-	1	-	-	-	-
Furniture and housing design	8	6	2	3	1	-	-

Total	**30** (36)	**21**(27)	**9**(9)	**6**	**1**	**0** (2)	**0** (2)
				7 (13)			

Note: Figures in brackets are from the previous year.

Numbers of doctoral students have stabilised. The number of students enrolled in 2020/2021 is shown in Table 6.4. An overview of the number of graduates is given in Table 6.3.

Table 6.3 Overview of the number of PhD level III graduates in the academic year 2019/2020 (as of 31 August 2020)

Field of Study/Programme	Number of graduates		
	daily form	external form	Total
Wood processing technology	1	-	1
Structure and properties of wood	-	-	-
DV design and manufacturing processes	1	-	1
Protection of persons and property/Fire protection and security	-	1	1
Security Sciences/Fire Protection and Safety	3	-	3
Furniture and housing design	-	-	-
Total	**5** (8)	**1** (0)	**6** (8)

Note: The figure in brackets is from the previous year.

Table 6.4 Overview of the number of enrolled Level III students in the academic year 2020/2021 (all/new entrants)

Field of Study/Programme	Number of students	
	Daily	External
Security Sciences/Fire Protection and Safety	3/2	5/3
Protection of persons and property/Fire protection and security	-/-	1/0
Wood Technology/Wood Processing Technology	5/1	1/0
Woodworking / Structure and properties of wood	2/1	1/1
Woodworking/Fabrication and processes of wood products	4/1	3/0
Designs and processes for the manufacture of wood products	-/-	1/0
Art/Furniture and Housing Design	6/1	3/0
[1]Sectoral economics and management/Economics and management of the forestry-logging complex	9/4	3/1
Total	**29/10**	**18/5**

Note: all/new entrants

[1] A study programme implemented by the university. Of the twelve students, ten are from DF.

In addition to professors and associate professors of the Faculty of Wood Sciences and Technology, the teaching of subjects in the third level of study is also guaranteed and provided by professors and associate professors of the Faculty of Wood Sciences and Technology, FEE, FT and the staff of the Institute of Woodworking. Professors and associate professors of the Faculty of Wood Sciences and Technology also guarantee and ensure the teaching of Level III courses at the Faculty of Wood Sciences and Technology and the Faculty of Economics. Hours for consultation and examination have been added to the actual teaching hours of the teachers in the 2018/2019 academic year, according to the current unified calculations at TU.

In the academic year 2019/2020, 7 doctoral students passed the dissertation examination: Ing. Michal Andrejko, Ing. Michal Dudiak, Mgr. Jakub Forgáč, Ing. Barbora Slováčková, Ing. Dominik Špilák, PaedDr. Patrik Tischler, MBA, Ing. Miroslav Uhrín.

In the academic year 2019/2020, 6 doctoral students defended their doctoral theses in individual doctoral study programmes:

Designs and processes for the manufacture of wood products

1. **Ing. Silvia Blašková, PhD.** : Functional dimensions of the school set in relation to anthropometric changes in the child population
   Supervisor: doc. Ing. Jozef Gáborík, CSc.

Fire protection and safety

2. **Ing. Radovan Gracovský, PhD.** : Thermal and acoustic properties of wood and wood-based materials and their influence on fire safety of wooden buildings
   Supervisor: doc. RNDr. Anna Danihelová, PhD.
3. **Ing. Patrik Sčensný, PhD.** : Selected fire-technical and acoustic characteristics of materials made of recycled technical textiles
   Supervisor: doc. RNDr. Anna Danihelová, PhD.
4. **Ing. Nikoleta Ulbriková, PhD.** : Influence of wood dust characteristics on the spread of fire in a wood processing enterprise
   Supervisor: prof. RNDr. Danica Kačíková, PhD., MSc.
5. **Ing. Rastislav Veľas, PhD.** : Influence of selected environmental and fuel parameters on forest fire development
   Supervisor: prof. RNDr. Danica Kačíková, PhD., MSc.

Wood processing technology

6. **Ing. Samuel Šimo-Svrček, PhD.** : Use of wood as a renewable raw material in the context of green economy
   Supervisor: doc. Ing. Hubert Paluš, PhD.

II. 8. TEACHERS' TEACHING LOAD

In determining the subsidy for the implementation of accredited study programmes, the number of students, the number of graduates, the economic difficulty of the study programmes, the integration of the university, the applicability of graduates in practice, quality and other aspects related to the provision of teaching are decisive. Similarly, at TU Zvolen, the teaching performance of the faculties is calculated in a similar way, while the relationship for the calculation of the teaching performance of the faculties also takes into account the inter-counting of teaching between the faculties.

Table 7.1 Structure of DF staff according to their job classification as of 30.6.2019

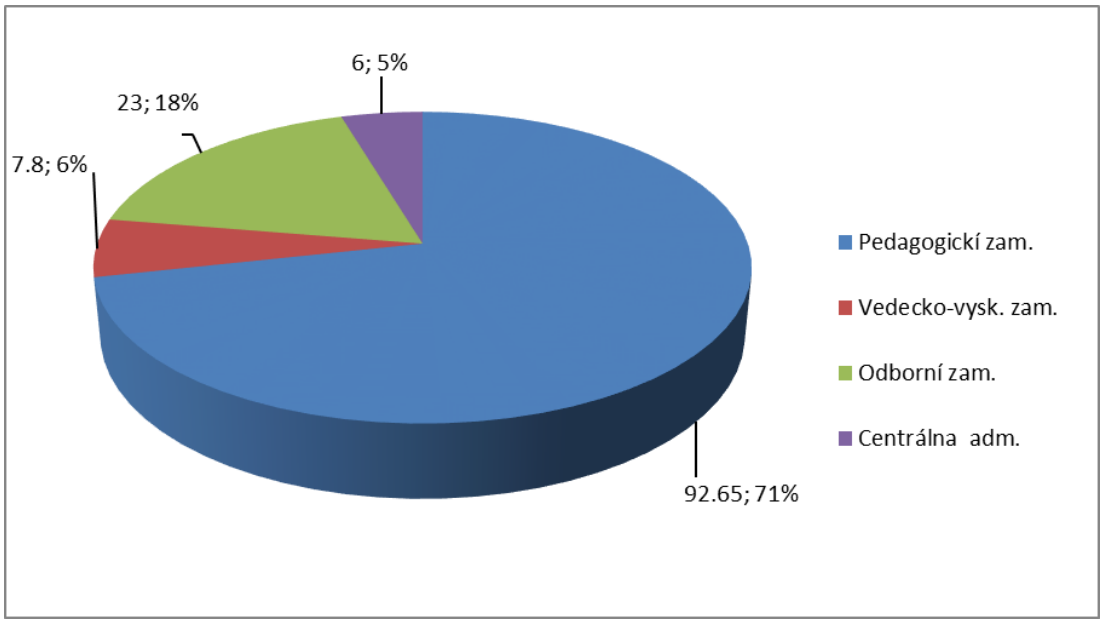
Workplace	Pedagogical Full-time	Science-full-time research	Professional employees.	Central Administration	DF

Dean's Office DF	-	-	-	6	6
KDNI	11,75	1	2	-	14,5
KDS	7	-	1		8
KFEAM	6	1*	0,4	-	6,4+1*
KCHCHT	7	-	4,6	-	11,6
KMDG	7	-	1	-	8
KMOSL	9,5	-	1	-	10,5
KDT	6	-	4	-	10
KND	4	1,95	2	-	7,95
KNDV	7	1	2	-	10
CODE	4	2	0	-	6
KEMP	12,95	1	1	-	14,95
KPO	11,5	-	3	-	14,5
Total	**93,7**	**6,95+1***	**22**	**6**	**128,65+1***

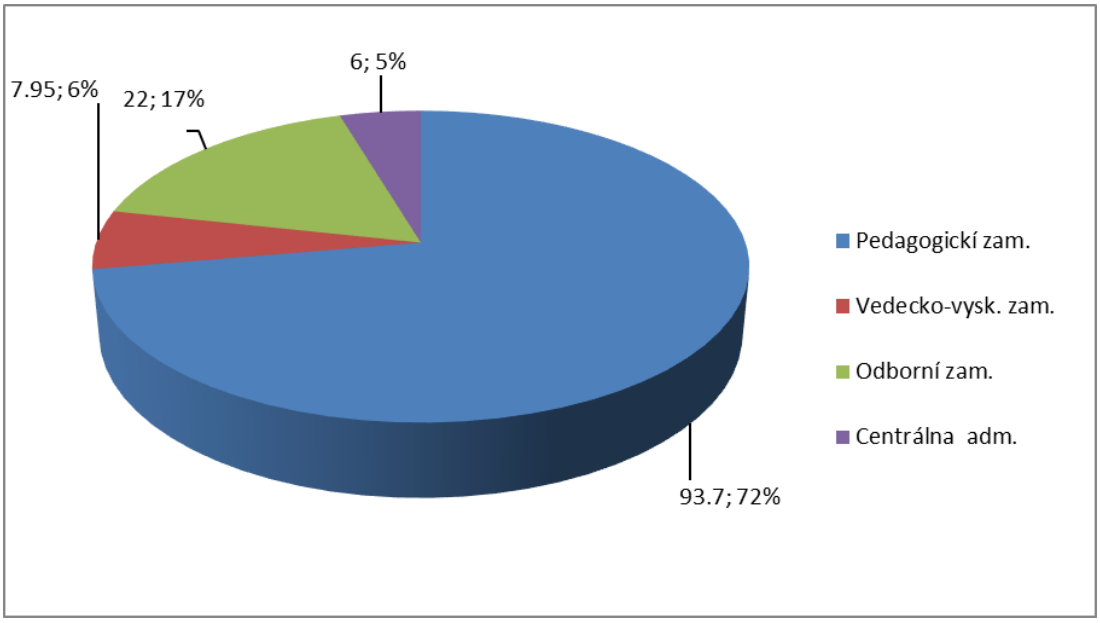
*Mgr. Ernest Murín - 100% for the project

Structure of the DF staff according to their classification.

Year 2019



Year 2020



The funding of universities from the budget is approximately 50:50 for performance in pedagogy and research, given the distribution of the performance subsidy. According to the performance overview, it is clear that not only the teaching performance of the faculty is contributed by the teaching staff, but they also contribute significantly to the performance in research activities. Similarly, research and professional staff also contribute to teaching performance.

In the following section we will discuss the departmental loadings according to the calculation of direct and indirect converted teaching. The number of working days per year is about 250, the working time of a teaching staff member is 7.5 hours per day. This adds up to approx. 1 950 hours per year, including holidays. The net working time is approx. 1550 hours. The working time of a teaching staff member at a university should be divided, as already stated,

in the ratio of approximately 50% of the working time for pedagogy and 50% of the working time for science and research.

The tables show the teaching load of the teachers of the Faculty of Wood Sciences and Technology in the individual departments in 2018/2019 and 2019/2020 in terms of direct teaching, indirect teaching (thesis supervision) and total teaching in hours.

Tables 7.2 and 7.3 summarise the so-called score evaluations that were obtained from the UIS. The data are based on timetable actions, so it is very important that the person responsible for the course (the course leader) assigns lecturers to timetable actions for lectures and tutorials or seminars. If this condition is not observed, the evaluation points will not be calculated correctly. The teaching load of the department is the value of the teaching staff only. Teaching hours in 2019/2020 are reported in aggregate for the whole department with teaching hours of PhD students, extramural students and staff whose employment has ended at the Faculty of Wood Sciences and Technology. Department Heads have a detailed profile of each member of staff in the department.

Table 7.2 Teaching of the departments of the Faculty of Wood Sciences and Technology of the University of Science and Technology in the academic year 2018/2019 (UIS evaluation scores used)

Department	Full-time	Teaching calculated in total h	Final thesis total h	Total h	Average per 1	% of total
KDNI	11,75	38 063,25	1 890	**39 953,25**	**3 400,28**	32,03
KPO	12,45	11 649,68	5 010	**16 659,68**	**1 338,13**	13,36
KEMP	10,95	9 849,35	3 810	**13 659,35**	**1 247,43**	10,95
KDS	6	5 586,80	1 770	**7 356,80**	**1 226,13**	5,90
CODE	4	3 926,36	420	**4 346,36**	**1 086,59**	3,48
KMOSL	10,5	7 747,74	3 360	**11 107,74**	**1 057,88**	8,91
KFEAM	6	5 715,70	420	**6 135,70**	**1 022,62**	4,92
KMDG	7	6 580,50	360	**6 940,50**	**991,50**	5,56
KND	4	3 177,00	630	**3 807,00**	**951,75**	3,05
KDT	6	3 863,50	900	**4 763,50**	**793,92**	3,82
KNDV	7	4 240,80	920	**5 160,80**	**737,26**	4,14
KCHCHT	7	4 322,28	520	**4 842,28**	**691,75**	3,88
DF	92,65	104 722,96	20 010	**124 732,96**	**1 346,28**	100,00

Table 7.3 Teaching of the departments of the Faculty of Wood Sciences and Technology of the University of Science and Technology in the academic year 2019/2020 (UIS evaluation scores used)

Department	Full-time	Teaching calculated in total h	Final thesis total h	Total h	Average per 1	% of total
KDNI*	11,75	46 798,30	1 830	**48 628,30**	**4 138,58**	37,58
KPO	11,50	10 910,08	4 390	**15 300,08**	**1 330,44**	11,82
KMOSL	9,50	7 040,50	3 270	**10 310,50**	**1 085,32**	7,97
KFEAM	6	5 185,99	1 110	**6 295,99**	**1 049,33**	4,87
CODE	4	3 760,20	360	**4 120,20**	**1 030,05**	3,18
KDS	7	5 201,28	1 980	**7 181,28**	**1 025,90**	5,55
KEMP	12,95	9 364,00	3 480	**12 844,00**	**991,81**	9,93
KND	4	3 422,00	450	**3 872,00**	**968,00**	2,99
KMDG	7	6 475,00	150	**6625,00**	**946,43**	5,12
KDT	6	3 993,50	1 110	**5 103,50**	**850,58**	3,94
KNDV	7	4 247,00	860	**5 107,00**	**729,57**	3,95
KCHCHT	7	3 391,92	620	**4 011,92**	**573,13**	3,10
DF	93,70	109 789,77	19 610,00	**129 399,77**	**1 381,00**	100,00

*The increase in hours in the Department of Furniture and Interior Design reflects the need for more staff to be involved in teaching studios. Studio is subsidized by 10 hrs and a factor of 3 and is counted at 100% for each staff member.

The average teaching load of the teachers of the Faculty of Woodwork is high in the long term. The optimal value is considered to be the level of approx. 900 hours.
One of the reasons for the high load of teachers is the high number of subjects in the implementation of the programmes of I. and II. degree. Increased attention needs to be paid to the number of PV courses being opened and to streamline the number of courses and the course load in the group. The teaching of these subjects constitutes a large part of the teaching at the DF. The teaching load of the teachers of the departments that provide teaching mainly in only one study programme (POB, KEMP, KMOSL) is even increased due to the high number of theses conducted and defended in the programme. Students preferably choose the topic of the thesis from the teachers of this department.

Tab. 7.4 Number of final theses at DF

Workplace	BP	DP	DizP	Total
Faculty of Wood Sciences and Technology	**205 (174)**	**179 (168)**	**16 (8)**	**400 (350)**
Department of Mathematics and Descriptive Geometry (DF)	2 (2)	1 (1)	-	3 (3)
Department of Chemistry and Chemical Technology (DF)	8 (8)	6 (5)	-	14 (13)
Department of Wood Science (DF)	3 (2)	3 (3)	1 (0)	7 (5)
Department of Physics, Electrical Engineering and Applied Mechanics (DF)	20 (15)	9 (8)	-	29 (23)
Department of Furniture and Wood Products (DF)	15 (12)	4 (4)	2 (2)	21 (18)
Department of Marketing, Business and World Forestry (DF)	24 (17)	38 (37)	1 (1)	63 (55)
Department of Woodworking (DF)	4 (3)	3 (2)	-	7 (5)
Department of Fire Protection (DF)	52 (47)	38 (35)	4 (4)	94 (86)
Department of Wooden Structures (DF)	22 (19)	19 (19)	1 (0)	42 (38)
Department of Furniture and Interior Design (DF)	12 (12)	14 (14)	3 (0)	29 (26)
Department of Wood Technology (DF)	11 (9)	9 (9)	2 (1)	22 (19)
Department of Economics, Management and Entrepreneurship (DF)	32 (28)	35 (31)	2 (0)	69 (59)

Item. : In brackets is the number of successfully defended theses
BP - Bachelor thesis, DP - Diploma thesis, DizP - Dissertation thesis

The number of theses in each department reflects the number of students in the study programme for which the department provides teaching services. The stabilisation of supervised theses in the science departments can be positively assessed.

An important accreditation criterion for thesis supervision in Levels I and II is a maximum of 10 supervised theses per employee for both levels combined.

In the following section of the report, the calculation of the so-called student-hours, which are determined, for example, in the calculation of the creditability of teaching within the TUZVO and the calculation of the subsidy, is presented.

The number of student-hours is defined as the product of the course endowment, the number of students enrolled in the normal form of study for this course and the number of teaching weeks in the semester.

The number of teaching hours is defined as the sum of the direct teaching component and the student examination component, where direct teaching is defined as the product of the sum of the durations of all timetable events in a given week and the number of teaching weeks in a semester (with the addition of the length of combined teaching) and the examination component is defined as the product of the number of examined students of both forms of study (normal and consultative) and a coefficient of 0.5.

Table 7.5 Basic overview of the number of student hours DF 2018/2019

The following table shows a basic overview of the number of student hours issued and received by individual faculties. The total in the Total column represents the sum of all student hours on that row, excluding those provided by a particular department to itself.

Faculty	Issued/Accepted by	DF	FEE	FT	LF	Rekt	Total
DF	V	**504 205**	15 034	9 644	15 388	27 336	67 402
	P		168	25 600	1 302	0	27 070
Rekt	V	0					**0**
	P	27 336					27 336
ÚCJ (043)	V	26 214					26 214
ISTC (087)	V	9 604					9 604

Set of student hours (Full-time study only)

The following table gives an overview of the student hours provided by the individual departments for a given form of study.

Issued/Accepted by	DF	FEE	FT	LF	Rekt	Total
DF	417 158	13 454	6 188	13 860	22 512	**473 172**
FEE	168	0	0	0	0	**168**
FT	21 154	0	0	0	0	**21 154**
LF	1 162	0	0	0	0	**1 162**
Rekt	0	0	0	0	0	**0**
ÚCJ (043)	21 588	0	0	0	0	**21 588**
ISTC (087)	9 604	0	0	0	0	**9 604**

Set of student hours (External combined form of study only)

The following table gives an overview of the student hours provided by the individual departments for a given form of study.

Issued/Accepted by	DF	FEE	FT	LF	Rekt	Total
DF	87 047	1 580	3 456	1 528	4 824	**98 435**
FEE	0	0	0	0	0	**0**
FT	4 446	0	0	0	0	**4 446**
LF	140	0	0	0	0	**140**
Rekt	0	0	0	0	0	**0**
ÚCJ (043)	4 626	0	0	0	0	**4 626**
ITC (087)	0	0	0	0	0	**0**

Table 7.6 Basic overview of the number of student hours by department

Overview of student hours provided by DF faculty departments

The following table shows a basic overview of the number of student hours provided by individual faculty departments.

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
KDNI (051)	73 160	0	0	0	0	**73 160**	78,05 %	12,80 %
KDS (049)	38 091	56	0	0	0	**38 147**	40,69 %	6,67 %
KDT (056)	19 100	0	0	0	168	**19 268**	20,55 %	3,37 %
KEMP (057)	77 549	0	0	56	4 032	**81 637**	87,09 %	14,28 %
KFEAM (014)	30 036	3 150	0	0	0	**33 186**	35,40 %	5,81 %
KCHCHT (012)	25 578	8 100	0	80	52	**33 810**	36,07 %	5,91 %
KMDG (011)	44 422	3 056	9 644	9 080	2 764	**68 966**	73,57 %	12,07 %
KMOSL (018)	42 476	0	0	1 456	19 384	**63 316**	67,54 %	11,08 %

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
KNDV (016)	21 314	0	0	0	0	**21 314**	22,74 %	3,73 %
KND (013)	20 608	504	0	4 676	0	**25 788**	27,51 %	4,51 %
CODE (021)	18 132	0	0	0	56	**18 188**	19,40 %	3,18 %
KPH (017)	0	168	0	40	880	**1 088**	1,16 %	0,19 %
KPO (022)	93 739	0	0	0	0	**93 739**	100,00 %	16,40 %
Total	504 205	15 034	9 644	15 388	27 336	571 607	---	---

Overview of student hours provided by DF departments of the FEE faculty

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
Dek (031)	0					**0**	0,00 %	0,00 %
KAE (026)	0					**0**	0,00 %	0,00 %
KBVE (027)	0					**0**	0,00 %	0,00 %
KEI (025)	168					**168**	100,00 %	100,00 %
KEVTUR (029)	0					**0**	0,00 %	0,00 %
KPTK (024)	0					**0**	0,00 %	0,00 %
Total	168					168	---	---

Overview of student hours provided by DF departments of the Faculty of FT

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
KELT (045)	0					**0**	0,00 %	0,00 %
KET (032)	42					**42**	0,27 %	0,16 %
KIAT (038)	0					**0**	0,00 %	0,00 %
KMSD (047)	15 836					**15 836**	100,00 %	61,86 %
KVAT (055)	7 006					**7 006**	44,24 %	27,37 %
KVTMKv (054)	0					**0**	0,00 %	0,00 %
KVTM (039)	2 716					**2 716**	17,15 %	10,61 %
Total	25 600					25 600	---	---

Overview of student hours provided by DF departments of the Faculty of Medicine

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
KAZMZ (052)	578					**578**	100,00 %	44,39 %
KERLH (007)	52					**52**	9,00 %	3,99 %
KF (008)	0					**0**	0,00 %	0,00 %
KHÚLG (006)	0					**0**	0,00 %	0,00 %
KIOLK (053)	168					**168**	29,07 %	12,90 %
KLŤLM (044)	504					**504**	87,20 %	38,71 %
KPLZI (058)	0					**0**	0,00 %	0,00 %
KPL (002)	0					**0**	0,00 %	0,00 %
KPP (042)	0					**0**	0,00 %	0,00 %
Total	1 302					1 302	---	---

Overview of student hours provided by DF faculty departments Rekt

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
Rekt	0					**0**	---	---

Overview of student hours provided by DF departments of the ÚCJ faculty (043)

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
ÚCJ (043)	26 214					**26 214**	100,00 %	100,00 %

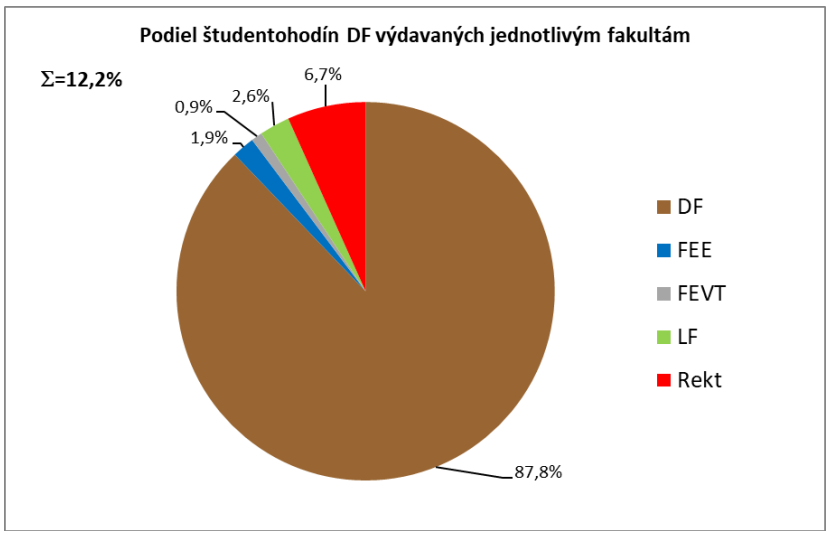
Overview of student hours provided by the DF departments of the faculty of the Institute of Education and Training (087)

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
ITC (087)	9 604					**9 604**	100,00 %	100,00 %

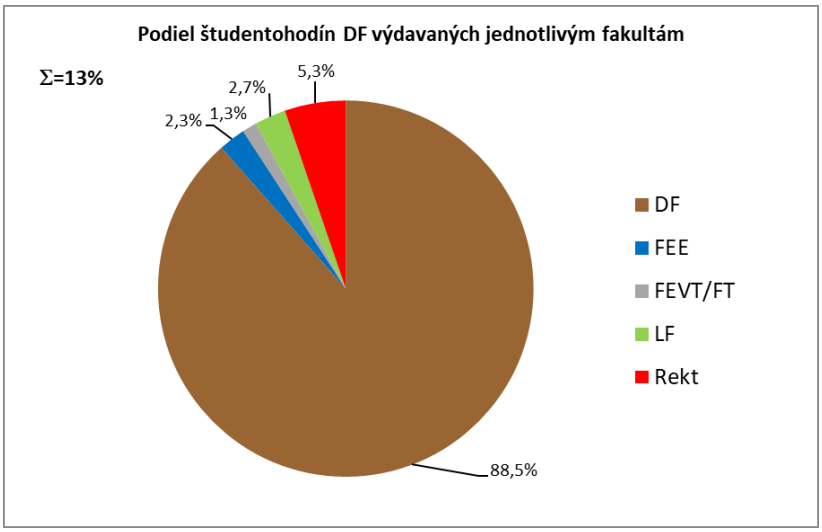
The Faculty of Wood Sciences and Technology provides 13.36% of the total output (64 402 h) to other TU components. It draws a total of 62 888 h from other components - the largest part of 42 % is provided by the teaching of the Institute of Foreign Languages (source Table 7.5)

It is very important to note that the correct display of the real values of student hours is conditioned by the correct and complete completion of the course information sheets (course leader, lesson allocation, etc.) and, of course, the completed timetable characteristics of each course for the teacher-educators. It can be stated that at DF this condition is fulfilled at a relatively high percentage, therefore these values can be considered highly realistic.

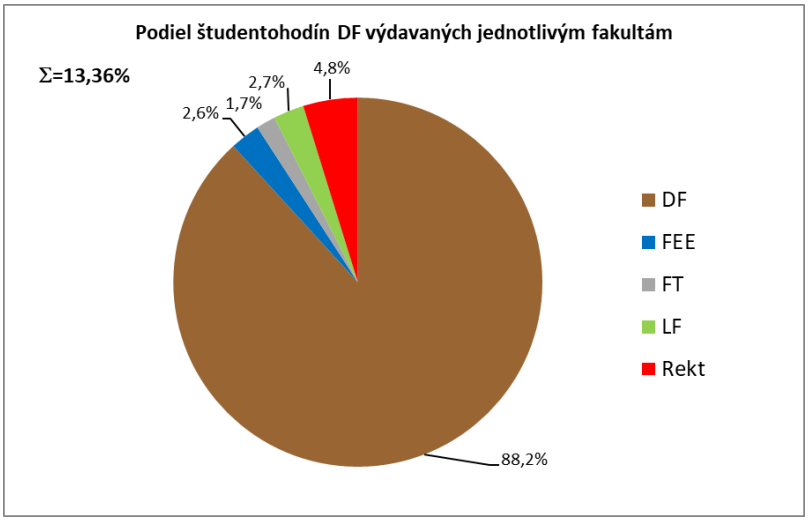
Year 2017/2018



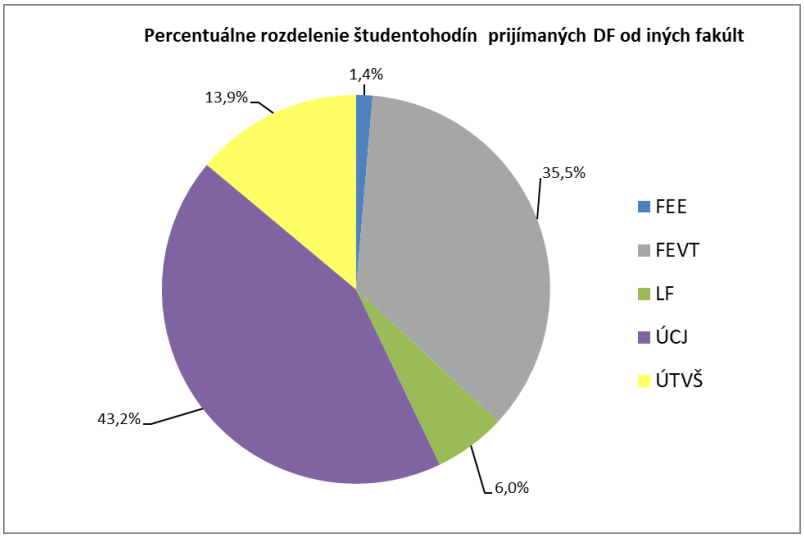
Year 2018/2019



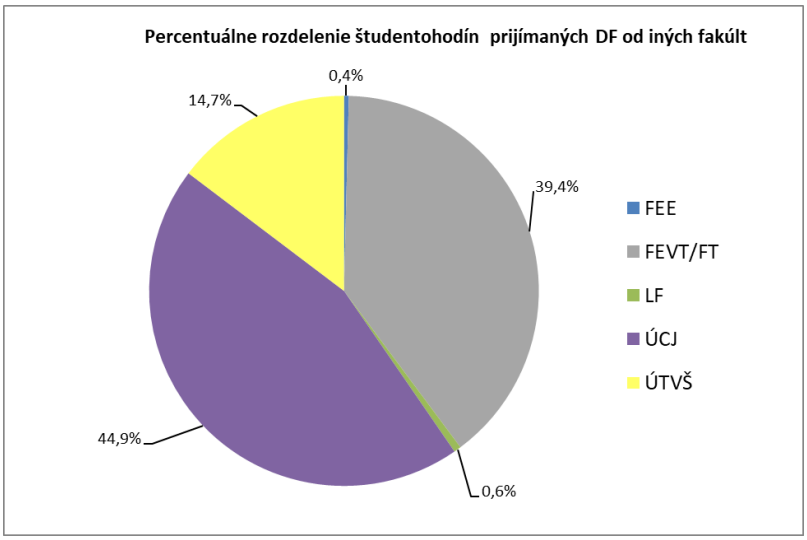
Year 2019/2020



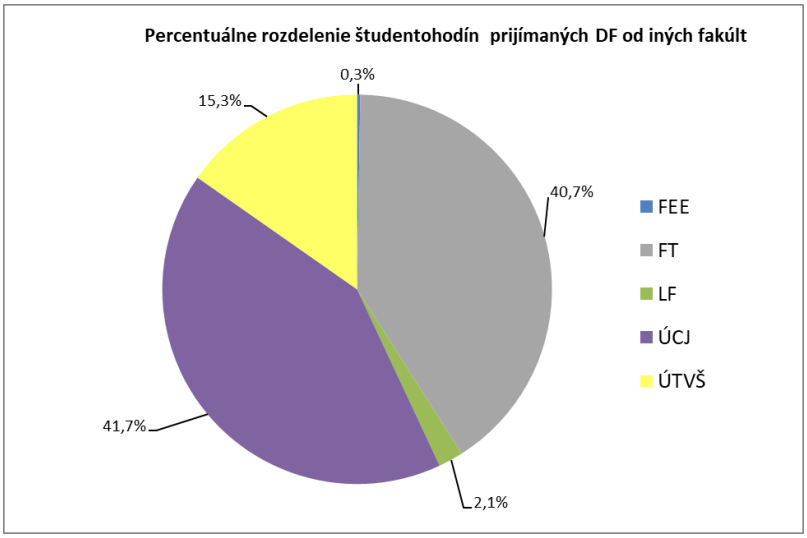
Year 2017/2018



Year 2018/2019



Year 2019/2020



II. 9. STUDENTS' EVALUATION OF THE QUALITY OF STUDIES AT THE DF

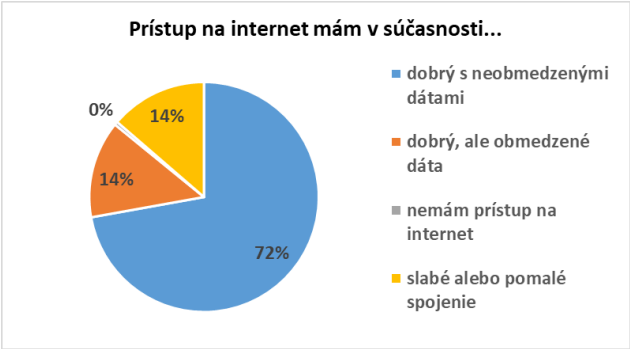
In the academic year 2019/2020, as in the previous year, the application for the evaluation of the quality of the educational process was launched via the University Information System (UIS). Students could comment via the UIS on the quality of the educational process at the end of the winter and summer semesters for each of their courses that were included in their personal study plan. In order to maintain the hierarchy, the access to the evaluation of the course evaluation is given to the teacher (lecturer) himself, the course tutor, the head of the department, the faculty management and the university management. The number of students who have participated in the evaluation of the quality of their studies is shown in Table 8.1. It is not a good sign that after years of increasing % of students involved in assessment, the lack of interest of students as well as lecturers on the subject has again been shown in this A.Y., especially in the LS. It is therefore necessary to continuously pay attention to this area in order to increase student participation in assessment, which, with an appropriate approach, will contribute to improving the quality of the teaching process. In addition to the course evaluation, students had the opportunity to express their overall satisfaction with their studies at the Faculty of Wood Sciences and Technology of TU Zvolen through the website of TU Zvolen. Heads of departments are obliged to monitor these survey results and in case of negative student feedback

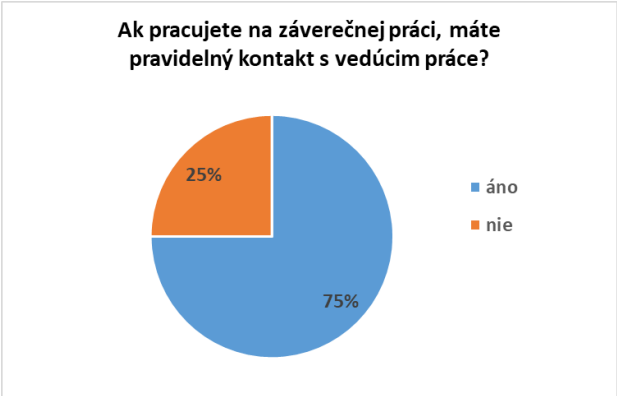
to solve the problem by individual interview with the concerned lecturer, which is successfully implemented in some departments.

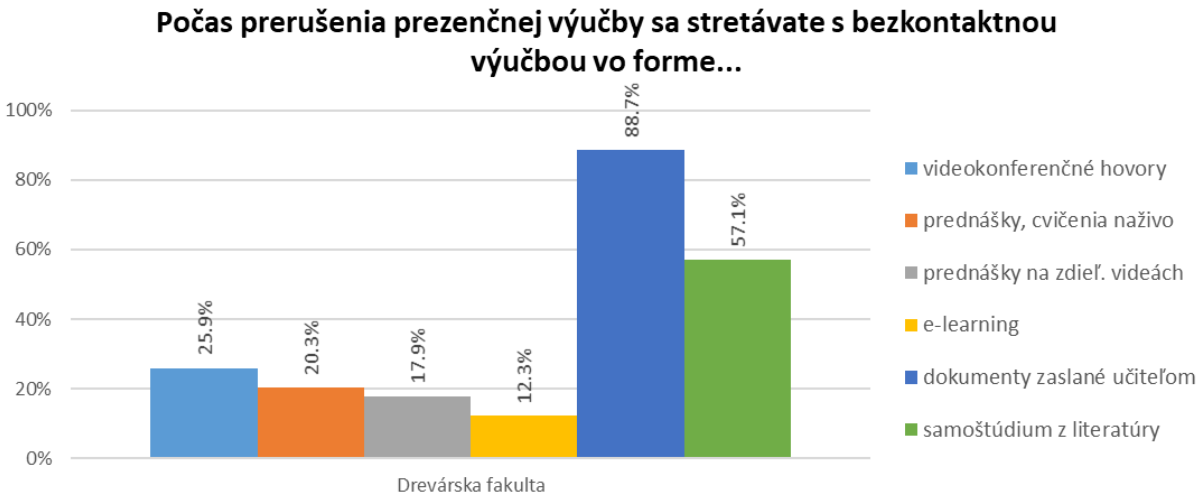
Table 8.1 Overall statistics of the evaluation of the subjects

Period: DF - LS 2019/2020		
Course evaluation		
Potential number of respondents:	1097	
Actual number of respondents:	49	4%
Number of courses duly enrolled in the period:	170	
Number of subjects with answers:	55	
Number of subjects with no responses:	115	32%
Number of completed survey ballots:	150	
Average number of tickets per subject:	0.88	
Additional questions		
Potential number of respondents:	1008	
Actual number of respondents:	29	2%
Period: DF - ZS 2019/2020		
Course evaluation		
Potential number of respondents:	1057	
Actual number of respondents:	120	11%
Number of courses duly enrolled in the period:	184	
Number of subjects with answers:	109	
Number of subjects with no responses:	75	59%
Number of completed survey ballots:	393	
Average number of tickets per subject:	2.14	
Additional questions		
Potential number of respondents:	1042	6%

In the summer semester 2019/2020, after the transition to distance learning, the Technical University conducted a survey on the course of non-contact teaching as of 6.4.2020.
212 students (196 full-time and 16 part-time) participated in the survey.
The results of selected survey responses are in the folded charts.







Please express your level of satisfaction with the amount of information available on the contactless learning process at TUZVO (1 satisfied - 5 dissatisfied)

Average rating 2.85 (TUZVO 2.72)

Overall, how satisfied are you with the course of contactless teaching at TUZVO (1 satisfied - 5 dissatisfied)?

Average rating 2,97 (TUZVO 2,78)

II. 10. IMPLEMENTATION OF THE 2019 DF EDITORIAL PLAN

The actual implementation of the 2019 editorial plan is shown in Table 9.1.

Tab. 9.1 Fulfillment of the DF editorial plan for 2019

Type of publication	Planned number	Number submitted	Fulfillment
Textbooks	7	3	43 %
Scripts	5	3	60 %
Artistic monograph	-	-	-
Scientific monograph	8	4	50 %
Professional book publication	1	0	0 %
Proceedings of scientific papers	1	1	100 %
Proceedings of the approved GTC	2	1	50 %
Other special-purpose publications	1	1	100 %
Total	**25**	**13**	**52 %**

Of these, the following publications have been approved and published outside the 2019 Editorial Plan:

- **Scripts:**
  1. "Anatomy of wood" - media scripts - M. Mamoňová - reprint, paid from DF
  2. "Mathematics I. Fundamentals of linear algebra" - scripts - J. Bakša - M. Bakšová, 3rd edition, financed by DF
  3. "General Foundations of Law" - scripts, 3rd edition - A. Dovčíková, paid from the DF funds
  4. "Organization of managerial work" -Scripts - 2nd edition - M. Hitka - S. Lorincová, paid from the DF funds

II. 11. STATUS OF ACCREDITATION OF STUDY PROGRAMMES AND DEVELOPMENT OF INTEREST IN STUDYING AT THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

The current status of guarantors/co-guarantors in accredited study programmes at the 1st, 2nd and 3rd level and of habilitation and inauguration committees at the Faculty of Wood Sciences and Technology is presented in Tables 10.1-10.3.

Tab. 10.1 Accredited study programmes of The Faculty of Wood Sciences and Technology (as of 31. 08. 2020) - new accreditation

Degree of study	Field of study	Study programme	Form Study	Length Study	Guarantor /PZ, SG
I.	Woodworking	Woodworking - Catching up	D,E	3/4	prof. L. Dzurenda doc. I. Klement prof. A Geffert
		Wood processing with IT support	D,E	3/4	prof. L. Dzurenda doc. I. Klement prof. A Geffert
		Creation and construction of furniture	D,E	3/4	prof. J . Kúdela doc. R. Réh doc. P. Joščák
		Design and construction of furniture - Volyně	E	4	doc. R. Lagaňa doc. I. Kubovský doc. J. Geffert
		Management of wood and furniture production - catching up	D,E	3/4	prof. J. Sedliačik doc. M. Hitka doc. Ľ. Krišťák
		Family business in the wood and furniture industry	D,E	3/4	prof. J. Sedliačik doc. M. Hitka doc. M. Sedliačiková
		Wooden buildings	D,E	3/4	prof. J. Štefko prof. L. Reinprecht prof. M. Siklienko
		Wooden buildings -Rails	E	4	doc. A. Rohanová doc. M. Mamonova doc. Ľ. Krišťák
	Economics and Management	Economics and management of wood processing industry enterprises	D,E	3/4	doc. J. Drábek doc. A. Sujová doc. M. Potkány
	Security Sciences	Fire protection and safety	D,E	3/4	prof. D. Kačíková Prof. F. Kacik doc. A. Danihelová
	Art	Furniture and interior design	D	4	doc. M. Ihring prof. J. Veselovský doc. R. Baďura
II.	Woodworking	Wood Engineering	D,E	2/3	prof. L. Dzurenda doc. I. Klement prof. A Geffert
		Creation and construction of furniture	D,E	2/3	prof. J . Kúdela doc. R. Réh doc. P. Joščák
		Management of woodworking and furniture production	D,E	2/3	prof. J. Sedliačik doc. M. Hitka doc. Ľ. Krišťák
		Production and Utilisation of Wood Products	D	2	prof. L. Reinprecht doc. J. Geffert doc. M. Gajtanska
		Wooden buildings	D,E	2/3	prof. J. Štefko doc. R. Lagaňa prof. M. Siklienko
	Economics and Management	Economics and management of wood processing industry enterprises	D,E	2/3	prof. M. Šupín doc. A. Sujová doc. M. Sedliačiková
	Security Sciences	Fire protection and safety	D,E	2/3	prof. D. Kačíková Prof. F. Kacik doc. A. Danihelová
	Art	Furniture and interior design	D	2	prof. J. Veselovský doc. M. Ihring doc. R. Baďura

III.	Woodworking	Wood processing technology	D,E	3/4	prof. L. Dzurenda prof. L. Reinprecht doc. I. Klement
		Structure and properties of wood	D,E	3/4	prof. J. Kudel doc. R. Lagaňa prof. A. Geffert
		Designs and processes for the manufacture of wood products	D,E	3/4	prof. J. Štefko, prof. J. Sedliačik doc. P. Joščák
	Security Sciences	Fire protection and safety	D,E	3/4	Prof. F. Kacik prof. D. Kačíková, doc. A. Majlingová
	Art	Furniture and housing design	D/E	3/4	prof. Veselovský doc. M. Ihring doc. R. Baďura
Habilitation and inaugurations	Wood processing technology	Wood processing technology	prof. L. Dzurenda/ prof. L. Reinprecht, Assoc. I. Klement		
	Structure and properties of wood	Structure and properties of wood	prof. A. Geffert/ doc. R. Lagaňa, doc. R. Hrčka		
	Designs and processes for the manufacture of wood products	Designs and processes for the manufacture of wood products	prof. J. Kúdela/ prof. J. Štefko, prof. Sedliačik		
	Rescue services	Rescue services	prof. F. Kačík/ prof. D. Kačíková, doc. A. Majlingová		

PZ - staffing (first and second level of study)

SG - Co-guarantor (third level)

Tab. 10.2 Accredited study programmes of the first degree of The Faculty of Wood Sciences and Technology
(as of 31/08/2019)

External Form - Catching up accreditation

Field of Study	Name of study programme	Form Study	Length Study	Guarantor /spolugarant
Woodworking	Construction of wooden buildings and furniture (Volyně, Czech Republic)	E	4	

Tab. 10.3 Accredited study programmes of The Faculty of Wood Sciences and Technology (as of 31. 08. 2019) - accreditation expiring

Field of Study	Name of study programme	Form Study	Length Study	Guarantor /spolugaranti
5.2.43 Wood processing technology	Wood processing technology	D, E	3, 5	prof. L. Dzurenda / prof. L. Reinprecht, doc. I. Klement
5.2.45 Designs and processes for the manufacture of wood products	Designs and processes for the manufacture of wood products	D, E	3, 5	prof. J. Štefko, /Professor. J. Kúdela doc. P. Joščák
8.3.1 Protection of persons and property	Fire protection and safety	D, E	3, 5	Prof. F. Kacik / prof. D. Kačíková, doc. Danihelová

The following tables present the development of interest in the study of degree I programmes, the numbers of registered and enrolled students and the success rate in completing degree I programmes and the numbers of students continuing their studies in degree II programmes.

Tab. 10.4 Development of interest in the study of study programmes of the first degree - number of enrolled/ planned number of admitted students at The Faculty of Wood Sciences and Technology, University of Technology in Zvolen 2017/2018 - 2020/2021 /status as of 01.10.2020/

Enrolments/admissions plan								
Field and study programme	**2017/2018**		**2018/2019**		**2019/2020**		**2020/2021**	
	D	**E**	**D**	**E**	**D**	**E**	**D**	**E**
Designs and processes of woodworking products/ Woodworking								
Wooden buildings - from 2015/2016	44/60	10/20	52/60	17/20	51/60	25/15	46/60	16/15
Wooden buildings- from 2015/2016 - Volyně	-/-	17/20	-/-	22/20	-/-	23/20	-/-	22/20
Total Designs and processes of wood products manufacturing/Woodworking	***44/60***	***27/40***	***52/60***	***39/40***	***51/60***	***48/35***	***46/60***	***38/35***
Woodworking								
Wood processing	14/40	1/20	5/30	2/20	6/30	0/10	4/30	0/10
Creation and construction of furniture	22/40	11/20	15/30	11/10	28/30	6/10	30/30	18/10
Design and construction of furniture - Volyně from 2017/2018	-/-	8/20	-/-	6/20	-/-	6/20	-/-	11/20
Management of woodworking and furniture production	9/25	0/20	6/20	1/10	3/20	0/10	5/20	1/10
Total Wood processing	***45/105***	***20/80***	***26/80***	***20/60***	***37/80***	***12/50***	***39/80***	***30/50***
Economics and Business Management/Economics and Management								
Economics and management of wood processing industry enterprises	***94/130***	***23/60***	***79/100***	***20/40***	***75/100***	***14/40***	***57/100***	***10/40***
Design/Aim								
Furniture and interior design	58/35	-/-	51/35	-/-	58/35	-/-	54/35	-/-
Emergency Services / Security Sciences								
Fire protection and safety	***157/100***	***42/60***	***163/100***	***33/60***	***133/100***	***23/40***	***120/100***	***29/40***
Total DF	**398/430**	**112/240**	**371/375**	**110/200**	**354/375**	**97/165**	**262/320**	**107/165**

Tab. 10.5 Study programmes of the first degree - number of admitted/enrolled students at The Faculty of Wood Sciences and Technology, University of Technology in Zvolen 2017/2018 - 2020/2021 /status as of 01.10.2020/

9								
Field and study programme	**2017/2018**		**2018/2019**		**2019/2020**		**2020/2021**	
	D	E	D	E	D	E	D	E
Designs and processes of woodworking products/ Woodworking								
Wooden buildings	44/38	10/9	52/39	17/14	51/41	25/20	46/38	16/13
Wooden buildings - from 2016/17 - Volyně	-/-	17/16	-/-	19/19	-/-	23/19	-/-	22/20
Total	***44/38***	***27/25***	***52/39***	***36/33***	***51/41***	***48/39***	***46/38***	***38/32***

Woodworking								
Wood processing	14/9	1/0	5/2	2/1	6/5	0/0	4/4	0/0
Creation and construction of furniture	22/21	11/10	15/8	11/9	28/22	6/5	30/26	18/15
Creation of furniture design (Volyn)	-/-	8/5	-/-	4/4	-/-	6/4	-/-	11/11
Management of woodworking and furniture production	9/8	0/0	6/3	1/0	3/2	0/0	5/1	1/0
Total	***45/38***	***20/15***	***26/13***	***18/14***	***37/29***	***12/9***	***39/31***	***30/26***
Economics and Business Management/Economics and Management								
Economics and management of wood processing industry enterprises	***94/63***	***23/20***	***79/51***	***20/15***	***75/51***	***14/12***	***57/37***	***10/9***
Design/Aim								
Furniture and interior design	38/29	-/-	39/27	-/-	45/36	-/-	**39/25**	**-/-**
Emergency Services/Safety Sciences								
Fire protection and safety	***144/92***	***42/32***	***142/88***	***33/25***	***133/84***	***23/17***	***120/85***	***29/22***
Total DF	**365/260**	**112/92**	**338/218**	**107/87**	**342/240**	**97/77**	**301/216**	**107/90**

Tab. 10.6 Success rate in completing degree programmes - numbers of enrolled 2017/2018, graduates 2019/2020 and continuing studies of degree programmes II at the Faculty of Science of the Faculty of Science of the University of Science and Higher Education of the University of Science and Higher Education of the Czech Republic

Department/programme	**Enrolled to level I**		**Alumni**		**Enrolled to level II**	
	2017/2018		**2019/2020**		**2020/2021**	
	D	**E**	**D**	**E**	**D**	**E**
Woodworking						
Wooden buildings	37	9	14	3	13	4
Wooden buildings/KDSN - Volyně	-	17	-	11	-	1
Wood processing	9	0	4	0	4	0
Creation and construction of furniture	20	5	10	1	8	0
Creation and construction of furniture -Fully		4		3		
Management of woodworking and furniture production	8	0	1	0	1 is on TKNV	0
Total Wood processing	***74***	***35***	***29***	***18***	***25***	***5***
Economics and Management						
Economics and Business Management DSP	64	8	33	6	33	5
Art						
Furniture and interior design	33	-	12	-	6	-
Security Sciences						
Fire protection of persons and property	93	14	50	4	45	3
Total DF	**264**	**57**	**124**	**28**	**109**	**13**

Out of 264 full-time students enrolled in the academic year 2017/2018 in the 1st cycle of studies at the Faculty of Wood Sciences and Technology, 124 students successfully completed their studies, which is 47%, and 109 students enrolled in the 2nd cycle, which shows that approximately 88% of students who successfully completed the 1st cycle of studies continued in the 2nd cycle.

In the external form of study, 28 out of 57 students enrolled in the academic year 2017/2018 in the first cycle of study at the Faculty of Wood Sciences and Technology successfully completed their studies. The value of graduates is not relevant because the standard length of study was changed in the case of external study and some study programmes were already accredited with this extended period of study.

III. SCIENTIFIC RESEARCH AND ARTISTIC ACTIVITIES

III. 1. INTENTIONS AND PERFORMANCE OF SCIENTIFIC RESEARCH AND ARTISTIC ACTIVITIES

The intentions and implementation of scientific research and artistic activities are based on the Long-term plan of The Faculty of Wood Sciences and Technology in Zvolen for the years 2017 - 2023 with a vision to 2030, which was developed in accordance with the requirements of Act No. 131/2002 Coll. on Higher Education and on Amendments and Supplements to Certain Acts and approved by the Academic Senate of The Faculty of Wood Sciences and Technology. The long-term plan is the basic planning document for ensuring the development of the Faculty in all key areas.

The research task of The Faculty of Wood Sciences and Technology is to fulfil its mission by solving research projects and programmes of national and international character with an orientation on the complex use of wood raw material, technology, engineering, economics, security services, art, as well as in other related and application areas. The aim of The Faculty of Wood Sciences and Technology is to be part of an internationally recognised, research-oriented university and to be one of the Slovak leaders in its scientific research focus.

In the field of scientific research, creative and artistic activities, the strategic goal of the Faculty of Wood Sciences and Technology is to achieve internationally accepted results in research and artistic activities and the transfer of knowledge into economic and social practice by 2023. To achieve this goal, the following measures are defined:

- To publish the results of research, creative and artistic activities in an international environment, especially in indexed renowned international scientific journals.
- Strengthen the position of the faculty in scientific research projects of national and international cooperation.
- Build research infrastructure, including skilled staff.
- To deepen the involvement of PhD students in research, creative and artistic activities with the condition of publishing in indexed international scientific journals.
- Build and ensure effective dissemination and commercialization of research results through the university's technology transfer centre.
- To popularize and make visible the results of scientific research, artistic and other creative activities of the faculty to the professional public.

The aim of the evaluation of the scientific research and artistic activities of the Faculty of Wood Sciences and Technology is to create an objective account of the activities of the Faculty for the past calendar year. By evaluating the development in the field of project, scientific research and artistic activities, it can be stated that in 2020 there was an increase in the number of creative staff and at the same time an improvement in the coefficient of the qualification structure. There has been a positive shift in the number of staff funded exclusively from project resources. Both the number of projects and the use of research capacity of staff have decreased, and the amount of funding received for projects has also decreased slightly. The total number of reported publications decreased, but this was at the expense of the least grant-worthy outputs. In the most important category of outputs (category B), there was an

increase in the number of outputs and an increase in the proportion of publications ranked in the top quartile of Q1. The increase in the number of reported artistic outputs in category Z is also positive. The total number of recorded citations has increased, with a particularly positive increase in category 1 - citations in foreign journals registered in the WoS and Scopus databases.

III. 2. SOLVING SCIENTIFIC RESEARCH PROJECTS

Research projects are an important element in the development of knowledge and the promotion of research in an academic environment. At the Technical University in Zvolen there is an organizational directive No. 2/2020 on the management of projects supported by the Ministry of Education, Science, Research and Sport of the Slovak Republic and other sources at the Technical University of Zvolen, the purpose of which is to ensure a uniform procedure in the preparation, processing and implementation of projects in the conditions of the Technical University of Zvolen.

An overview of the projects to be carried out at the DF in 2020 is given in Tables III-1 and III-2.

In 2020, a total of 18 VEGA projects were solved at The Faculty of Wood Sciences and Technology, of which 11 projects had a responsible investigator from The Faculty of Wood Sciences and Technology and in 7 projects The Faculty of Wood Sciences and Technology staff were members of the research team. VEGA projects solved in the position of the responsible researcher from the Faculty of Science are included in the following committees:

– VEGA No. 8 for Agricultural, Veterinary and Wood Sciences ..... 8 projects,
– VEGA No. 12 for Arts, Aesthetics and Linguistics ..... 1 project,
– VEGA No. 13 for Economic and Legal Sciences ..... 2 projects.

In the field of university pedagogy, a total of 9 KEGA projects were solved at the Faculty of Wood Sciences and Technology in 2020, 3 in the position of responsible researchers, 2 in the position of responsible researchers for the co-investigating organisation. In another 4 KEGA projects, DF staff were members of the research team at other faculties and workplaces.

DF staff solved 9 projects of the APVV agency in the position of responsible researchers. Two projects were solved within the general call VV2016, 4 projects within the general call VV2017 and one project each within the general calls VV2018 and VV2019. One project was funded under the bilateral call APVV Slovakia - Poland. In three projects, DF staff were members of the research team at another department.

Based on the development of the total number of funded projects, it can be stated that in 2020 there was a slight year-on-year decrease in the number of projects solved at The Faculty of Wood Sciences and Technology. The decrease occurred in the case of VEGA and KEGA projects.

Tab. III-1 Number of research projects solved at the Faculty of Science in 2017-2020

Projects	r. 2017	r. 2018	r. 2019	r. 2020
VEGA	24	25	20	18
KEGA	12	14	12	9
APVV	9	11	12	12
MVTS	4	4	5	5
7. RP	-	-	-	-
OP-SF	-	-	-	1
IPA TUZVO	4	1	2	3

Other	-	-	1	3
Together	53	55	52	51

Tab. III-2 Overview of tasks to be solved at the Faculty of Wood Sciences and Technology in 2020

Task number	Name of the task	Principal Investigator	Solving capacity in hours		Allocated funds in €	
			Educator. work.	Research work/ PhD students	Current expenditure	Capital expenditure
VEGA						
1/0729//18	Hydrothermal, nano-chemical and biological modifications of wood materials with targeted alteration of their structure and properties	prof. Ing. Ladislav Reinprecht, CSc.	2985	0 500	13 423	-
1/0387//18	Improving the fire protection properties of wood with new fire retardants	prof. RNDr. František Kačík, PhD.	2200	-	16 571	-
1/0493//18	Progressive methods for assessing the contribution of lignocellulosic materials and products to fire development after fire protection treatments	prof. RNDr. Danica Kačíková, MSc., PhD.	2300	0 1200	15 055	-
1/0485//18	Machining strategies for specific models of agglomerated material separation in nesting milling on a CNC machining centre	prof. Ing. Mikuláš Siklienka, PhD.	2700	1000 300	5 687	-
1/0556//19	Extruded veneer-based wood materials and their application in products	doc. Ing. Jozef Gáborík, CSc.	5000	3900 1000	14 177	-
1/0666//19	Determining the development of a wood-based bioeconomy	doc. Ing. Ján Parobek, PhD.	5500	0 2500	8 190	-
1/0674//19	Proposal for a model of implementation of eco-innovations into the innovation process of business entities in Slovakia to increase their performance	Ing. Erika Loučanová, PhD.	5000	0 2500	9 265	-
1/0717//19	Assessment of the environmental impacts of wood-based buildings as a whole in the whole life cycle process	doc. PaedDr. Ľuboš Krišťák, PhD.	2300	-	6 783	-
2/0106//19	Wooden Pipe Fund of Historical Organ Positives in Slovakia	Ing. Martin Čulík, PhD.	700	-	1 037	-
1/0397//20	Efficient use of woody biomass in terms of valuable chemical substances	Mgr. Viera Kučerová, PhD.	2600	-	12 445	-

1/0454/20	Study of changes in fire-technical parameters of natural and synthetic polymeric materials by progressive analytical and forensic methods	Ing. Veronika Veľková, PhD.	3500	0 300	10 181	-
1/0934/16	Cultural intelligence as an important prerequisite for Slovakia's competitiveness in the global environment	Solving organization: the EF UMB Banská Bystrica Representative of the responsible researcher: doc. Ing. Mariana Sedliačiková, PhD.	200	0 0	-	-
1/0377/17	Research on the synergistic effect of the interaction of noise and ototoxic substances in hazardous forestry and wood processing plants	Principal investigator: prof. Ing. Prof. M. Schwarz, CSc., FEE TUZVO Solver from Faculty of Wood Sciences and Technology: doc. Mgr. Mgr. M. Němec, PhD.	500	0 0	-	-
1/0836/18	Adaptation of forest landscapes as a source of ecosystem services to uncertainties of future development by means of ecological rationality tools	Principal investigator: prof. H.c. prof. Dr. Ing. Viliam Pichler., Faculty of Medicine, Faculty of Science. Mgr. J. Schmidtová, PhD.	300	0 0	-	-
1/0318/19	Behavioural aspects of quality and their impact on building a quality culture	Solving organization: the EF UMB Banská Bystrica - doc. Ing. Denisa Malá, PhD. Solver from Faculty of Wood Sciences and Technology: doc. Ing. Prof. Mariana Sedliačiková, PhD.	200	0 0	-	-
1/0450/19	Evaluation of hybrid poplars in terms of defence responses and wood cell wall composition under climate change	Principal investigator: prof. Dr. Mgr. Mgr. Jaroslav Ďurkovič., Faculty of Medicine, Faculty of Science. Vladimír Račko, PhD.	0	700 0	-	-
1/0655/20	The concept of bioeconomy in the conditions of the forestry and forestry sector of the Slovak Republic	Principal investigator: Ing. Blanka Giertlová, PhD., LF TUZVO, Principal Investigator. Patrik Aláč, PhD.	500	0 0	-	-
1/0029/20	Microevolutionary mechanisms shaping the spatial genetic structure of forest tree populations	Principal investigator: prof. Ing. D. Gömöry, DrSc., Faculty of Medicine, Faculty of Science. Mgr. J. Schmidtová, PhD.	300	0 0	-	-

KEGA						
003TU Z-4//2018	Creation of indoor microclimate and heating of buildings with firewood	prof. Ing. Ladislav Dzurenda, PhD.	2700	1000 0	9 727	-
001TU Z-4/2020	Implementation of Progressive Technologies, Methods and Forms into Education in the Field of Study Security Sciences	Prof. RNDr. Danica Kačíková, MSc., PhD.	1900	0 1250	7 658	-
005TU Z-4//2020	Economics, management and entrepreneurship in wood processing enterprises-college textbooks with the support of visualization in virtual space	doc. Ing. Marek Potkány, PhD.	4200	0 500	8 901	-
029ŽU-4//2018	Creation of innovative teaching materials in the field of applied physics and experimental measurements for technical subjects of newly accredited study programmes	Principal investigator: doc. PaedDr. Peter Hockicko, PhD., EF ŽU Responsible researcher for DF: doc. Ing. Ivan Kubovský, PhD.	4100	0 0	5 881	-
005TU Z-4/2018	Building a progressive CNC machining workplace to innovate forms of teaching in study programmes at FT	Principal investigator: prof. Ing. Prof. Prof. Štefan Barcík, PhD., FT TUZVO Researchers from Faculty of Wood Sciences and Technology: doc. Ing. R. Kminiak, PhD., Ing. J. Schmidtová, PhD.	200	0 0	-	-
032PU-4//2018	eLearning in emergency health care and emergency services	Principal investigator: Ing. Bc. Danka Boguská, PhD., FZO UNIPO Responsible researcher for DF: doc. Ing. Prof. Andrea Majlingová, PhD.	200	0 0	2 675	-
008TU Z-4/2019	Provision of a new study programme in forensic and criminal environmental science	Principal investigator: prof. Ing. Prof. Marián Schwarz, CSc., FEE TUZVO Researchers from Faculty of Wood Sciences and Technology:	1100	0 0	-	-

		doc. Ing. Iveta Čabalová, PhD., Ing. Eva Výbohová, PhD.				
015TU Z-4/2019	Progress and application of educational methods in the field of mechanics of solids	Principal investigator: Ing. M. Minárik, PhD., FT TUZVO Researcher from Faculty of Science: RNDr. O. Vacek, PhD.	450	0 0	-	-
003TU Z-4/2020	Promoting university education in a world language through the fusion of vocational and linguistic content in non-philological faculties	Principal investigator: Mgr. Mgr. Jaroslava Štefková, PhD., ÚCJ TUZVO Researcher from DF: Ing. Veronika Velková, PhD.	300	0 200	-	-
APVV - research projects						
APVV-16-0177	Progressive modification of wood surfaces, film-forming agents and their interactions at the phase interface	prof. Ing. Jozef Kúdela, CSc.	3400	1200 1400	73 784	-
APVV-16-0326	New wood flame retardants based on natural compounds and nanoparticles	prof. RNDr. František Kačík, PhD.	5200	0 700	62 670	-
APVV-17-0456	Thermal modification of wood with saturated water vapour for the purpose of targeted and stable change of wood colour	prof. Ing. Ladislav Dzurenda, PhD.	2600	1400 500	55 996	-
APVV-17-0583	Construction and decoration materials based on recycled and modified wood	prof. Ing. Ladislav Reinprecht, CSc.	7400	0 2200	67 218	-
APVV-17-0005	A systematic approach to the study of fire parameter changes using advanced analytical and forensic methods	prof. RNDr. Danica Kačíková, MSc., PhD.	6500	0 2100	61 831	-
APVV-17-0206	Ultra-low-energy green buildings based on the renewable raw material wood	prof. Ing. Jozef Štefko, CSc.	6200	0 2000	63 092	-
APVV-18-0378	Research on innovative methods for crosslinking formaldehyde in wood-based panels by environmentally progressive modification of aminoplasts with biopolymers and additives to support a sustainable circular bioeconomy	prof. Ing. Ján Sedliačik, PhD.	3650	1600 0	53 460	-
APVV-19-0269	Research on the preparation of environmentally stable wood bio-composites by innovative methods of targeted modification of polycondensation adhesives with natural polymers and additives	doc. Ing. Roman Réh, CSc.	2800	0 2000	21 459	-

APVV-19-0612	Modelling the impact of the risk of destructive natural hazards on the forestry - timber economic complex under conditions of continuing climate change	Principal Investigator: prof. Ing. Ján Holécy, CSc. Researchers from Faculty of Science: RNDr. Ján Bakša, PhD., RNDr. Marta Bakšová, PhD., Ing. Patrik Aláč, PhD.	1150	0 0	0	-
APVV-18-0520	Innovative methods of performance analysis of the forestry-logging complex using the principles of green growth	Principal Investigator: prof. Ing. Iveta Hajdúchová, PhD. Solvers from Faculty of Wood Sciences and Technology: doc. Ing. Mariana Sedliačková, PhD., doc. Ing. Marek Potkány, PhD., Ing. Mária Moresová, PhD.	600	0 0	0	-
APVV-19-0035	Simulation and visualisation analytical tool for forestry planning (SAVANT)	Principal Investigator: prof. Ing. Marek Fabrika, PhD. Researchers from Faculty of Science: RNDr. Ján Bakša, PhD., RNDr. Marta Bakšová, PhD., Ing. Patrik Aláč, PhD.	800	0 0	0	-
APVV - bilateral cooperation projects						
SK-PL-18-0052	Effect of high-temperature drying conditions in a gas and steam environment on the properties of the dried material and energy consumption	doc. Ing. Ivan Klement, CSc.	-	-	2 000	-

International science and technology cooperation projects						
COST CA15216	European Network of Bioadhesion Expertise: Fundamental Knowledge to Inspire Advanced Bonding Technologies	prof. Ing. Ján Sedliačik, PhD.	-	-	0	-
COST CA16229	European Network for Environmental Citizenship (ENEC) (European Network for Environmental Citizenship)	Ing. Vladislav Kaputa, PhD., Ing. Hana Mátová, PhD.	600	0 0	0	-
COST Action CA 18135	Fire in the Earth System: Science & Society	doc. Ing. Andrea Majlingová, PhD., prof. RNDr. Danica Kačíková, MSc., PhD.	-	-	0	-
COST CA18236	Multi-disciplinary Innovation for Social Change	Ing. Vladislav Kaputa, PhD.	300	0	0	-

				0		
IVF 21830004	International cooperation of the Visegrad Four countries - Phase II, in the application of the V4 test battery in practice and its modification for the needs of current firefighters	doc. PaedDr. Peter Polakovič, PhD.	1500	0 100	2 272	-
IPA projects - FOCCI						
7/2020	Opportunities for increasing the competitiveness of wood processing enterprises through the application of environmentally sound purchasing	Ing. Nikola Slašt'anová	160	0 420	878	-
15/2020	Effect of infrared radiation on selected surface properties of wood	Ing. Michal Andrejko	300	0 1300	933	-
17/2020	Identification of physical fields of rotten wood using indirect tasks	Ing. Barbora Slováčková	100	0 1300	956	-
Other projects						
SEMOD-76-2/2019	Research on wood composites for increasing the level of protection of soldiers - KOCHRAN	doc. Ing. Roman Réh, CSc.	3192	0 0	26 496	-
UNIVNET	University and industry research and education platform for a recycling society	Principal investigator for TUZVO: Dr. h. c. prof. Ing. Prof. Rudolf Kropil, PhD. Doc. Ing. Iveta Čabalová, PhD., doc. Ing. Ing.	630	0 0	19 881	-
NFP313010 Q879	FDAAS - Automated Fire Danger Assessment System	doc. Ing. Andrea Majlingová, PhD.	-	-	38 333	-

III. 2.1 SCIENTIFIC RESEARCH CAPACITY OF THE DF AND ITS QUALIFICATION STRUCTURE

Workplace	Qualifications								Total	CSc., PhD.
	Teaching staff					Researchers (R&D)				
	prof.	doc.	OA with PhD.	OA without PhD.	THP	VV with PhD.	VV work. without PhD.	VV work. SŠ		
KDT	2	1	3	0	4	0	0	0	10	6
KMDG	0	0	7	0	1	0	0	0	8	7
KND	1	3	0	0	2	1,80	0	0	7,80	5,80
KFEAM	0	4	2	0	0,4	0	1 [a)]	0	7,4	6
KNDV	1	2	4	0	2	1	0	0	10	8
KEMP	0	5	8,95	0	1	0,9	0	0	15,85	14,85
KMOSL	1	2,75	4,75	1	1	0	0	0	10,5	8,5
KCHCHT	1	1	3	0	4,6	0	0	0	9,6	5
CODE	2	1	1	0	0	1	0	1	6	5
KPO	1	4	6,5	0	3	2 [a)]	0	0	16,5	13,5
KDS	1	2	4	0	1	0	0	0	8	7
KDNI	1	3	8	1,25	2	1	0	0	16,25	13
DDF	0	0	0	0	6	0	0	0	6	0
Total 2020	**11**	**28,75**	**52,2**	**2,25**	**28**	**7,7**	**1**	**1**	**131,9**	**99,65**
Total 2019	11	28,75	49,2	3,75	27	5,95	1,5	1	128,15	94,9
Total 2018	11	27,75	50,40	3,5	29	6,8	1	1	130,45	99,45
Total 2017	12	29,75	54,70	3	32	6,5	1	1	139,95	102,95

Tab. III-3 Structure of staff by individual workplaces as of 31.12.2020

Note : [a)] 100% project-funded staff (Mgr. Murín (KFEAM), Ing. Ulbriková, Ing. Veľas (KPO))

The number of FTEs in the DF increased year-on-year (+3.75 FTEs). The increase was mainly due to the return of staff after parental leave (+5). The most significant increases occurred at the Assistant Professor with PhD (+3.0) and Research Fellow with PhD (+1.75). One THP was also added. Conversely, there was a decrease in the positions of OA without PhD (-1.5) and PI without PhD (-0.5). The changes made had a positive impact on the qualification structure of the faculty staff (Table III-3a).

Tab. III-3a Evolution of the coefficient of the qualification structure of DF staff

Year	2017	2018	2019	**2020**
Qualification structure factor DF	1,5103	1,4884	1,5070	**1,5149**

The calculation of the research capacity of the Faculty of Science is based on the structure of teaching and research staff of the Faculty of Science and the maximum research capacity in terms of the principles of the VEGA grant agency (teaching staff 1 000 h, research staff 2 000 h, PhD students 2 000 h). The research capacity of DF staff according to the qualification structure was

In 2020, the total capacity was 111 600 h (see Table III-4), of which teaching staff had a capacity of 94 200 h and research staff 17 400 h. A further 40 000 h were doctoral students. In sum, the DF thus had a research capacity of 151 600 h (149 600 h in 2019). The slight increase in scientific research capacity is due to changes in the structure of the staff.

Tab. III-4 Scientific research capacity according to the qualification structure of DF staff as of 31.12.2020

Category	DrSc.	CSc./PhD.	Without scientific ranks	Total	VV-capacity h.
Teaching staff					
Professors	0	11	-	11	11 000
Associate Professors	0	28,75	-	28,75	28 750
Professional assistants	0	52,2	2,25	54,45	54 450
			Total	**94,20**	**94 200**
Research staff					
Research staff	0	7,7	1	8,7	17 400
			Total	**8,7**	**17 400**
PhD students					
Internal PhD students	0	-	20	**Total**	**40 000**

The use of the research capacity of the Faculty of Science for all types of research tasks was calculated according to the annual reports of individual grant projects for 2020 and is presented in Table 1. III-5.

Tab. III-5 Utilization of the scientific research capacity of the Faculty of Science in 2020

Workplace	Solving capacity in hours							
	VEGA and KEGA		APVV		Interviewer. proj. + other		Total	
	pedagogy. work.	research work.	pedagogy. work.	research work.	pedagogical work.	research work.	pedagogical work.	research work.
DF	47 685	5 900	37 750	4 200	6 152	-	**91 587**	**10 100**
LF	1 100	700	2 550	-	-	-	**3 650**	**700**
FEE	1 600	-	-	-	-	-	**1 600**	**-**
FT	650	-	-	-	-	-	**650**	**-**
ÚCJ	300	-	-	-	-	-	**300**	**-**
Other universities	600	-	-	-	-	-	**600**	**-**
Total	**51 935**	**6 600**	**40 300**	**4 200**	**6 782**	**-**	**99 017**	**10 800**
PhD students	-	**10 250**	-	**8 900**	-	**3 120**	-	**22 270**
Total	**51 935**	**16 850**	**40 300**	**13 100**	**6 782**	**3 120**	**99 017**	**33 070**
Total 2020	**68 785**		**53 400**		**9 902**		**132 087**	
share	**52,1 %**		**40,4%**		**7,5 %**		**100 %**	
Total 2019	87 220		53 000		6 989		147 209	
Total 2018	123 580		42 968		1 260		167 808	
Total 2017	125 675		30 570		6 200		162 445	

The total hours reported for project solutions in 2020 was 132 087 h, representing a theoretical capacity utilisation of 87.1% (98.4% in 2019). The largest share of theoretical capacity was used for the first time to solve APVV projects 40.4% (36.0% in 2019) followed by VEGA projects 38.4% (43.8% in 2019) and KEGA 13.6% (15.5% in 2019). There has been a significant increase in the hours reported for international and other projects, which together use 7.5% of the reported researcher capacity.

For teaching staff of the Faculty of Wood Sciences and Technology, the average reported capacity is 1,051 h/staff (105.1% of the theoretical capacity compared to 120.2% in 2019) and for PhD students 1,114 h/doctoral student (55.7% of the theoretical capacity compared to 67.6% in 2019). For researchers, there was an increase to 1,241 h/researcher (62.1% of theoretical capacity against 49.3% in 2019).

III. 2.2 FINANCIAL PROVISION FOR DF RESEARCH

A recapitulation of the funds allocated and used for the scientific research activities of the Faculty of Science in 2020 is presented in Tables III-6, III-7 and III-8**.**

Tab. III-6 Allocation of funds for VEGA projects by department in 2020

Department	Project number		Principal Investigator	Allocated funds	Number of projects in the department	Total allocation per department
	TUZVO	Ministry of Education and Science of the Slovak Republic		Common		Common
KDT	V-18-007-00	1/0729/18	prof. Reinprecht	13 423	1	13 423
KCHCHT	V-18-008-00	1/0387/18	prof. Kačík	16 571	2	29 016
	V-20-009-00	1/0397/20	Mgr. Kučerová	12 445		
KPO	V-18-009-00	1/0493/18	prof. Kačíková	15 055	2	25 236
	V-20-010-00	1/0454/20	Ing. Veľková	10 181		
CODE	V-18-010-00	1/0485/18	prof. Siklienka	5 687	1	5 687
KNDV	V-19-006-00	1/0556/19	doc. Gáborík	14 177	1	14 177
KMOSL	V-19-008-00	1/0666/19	doc. Parobek	8 190	2	17 455
	V-19-007-00	1/0674/19	Ing. Loučanová	9 265		
KFEAM	V-19-005-00	1/0717/19	doc. Krišťák	6 783	1	6 783
KDS	V-19-005-00	1/0106/19	doc. Čulík	1 037	1	1 037
Total 2020				**112 814**	**11**	**112 814**
Total 2019				127 589	14	127 589
Total 2018				135 913	17	135 913
Total 2017				116 282	15	116 282

In 2020, the number of VEGA projects in the position of the responsible researcher decreased to 11 (year-on-year decrease by 3). In terms of funds allocated, there was a year-on-year decrease of € 14 775 (-11.6%). The average amount of funds allocated per project was € 10,256 (in 2019 it was € 9,113/project). No funds were allocated by the Agency for capital expenditure.

Within the call for proposals published by VEGA in 2020, 5 projects were submitted to the Faculty of Science in the position of the responsible researcher.

Table III-7 summarises the overview and status of funding of KEGA projects by the Ministry of Education and Science of the Slovak Republic.

Tab. III-7 Allocation of funds for KEGA projects in 2020

Department	Project number		Principal Investigator	Allocated funds	Number of projects in the department	Total allocation per department
	TUZVO	Ministry of Education and Science of the Slovak Republic		Common		Common
CODE	K-18-004-00	003TU Z-4/2018	prof. Dzurenda	9 727	1	9 727
KFEAM	K-18-005-00	029ŽU-4/2018	doc. Kubovský	5 881	1	5 881
KPO	K-18-003-00	032PU-4/2018	doc. Majlingová	2 675	2	10 333
	K-20-001-00	001TU Z-4/2020	prof. Kačíková	7 658		
KEMP	K-20-002-00	005TU Z-4/2020	doc. Potkany	8 901	1	8 901
Total 2020				**34 842**	**5**	**34 842**
Total 2019				44 191	8	44 191
Total 2018				39 026	9	39 026
Total 2017				30 026	7	30 026

In 2020, 5 KEGA projects were solved at the Faculty of Science in the position of responsible researcher or responsible researcher for a co-investigator organisation (year-on-year decrease by 3). The total amount of funds allocated decreased by € 9 349 (-21.2%) year-on-year. On average, € 6 968 was allocated per project in 2020 (€ 5 524/project in 2019). As in previous years, no capital funds were allocated.

Within the call published in 2020, 3 KEGA projects were submitted to the Faculty of Science in the position of the responsible investigator and 2 in the position of the co-investigator organisation.

Table III-8 shows the distribution of the funding allocated to the APVV projects in 2020.

Tab. III-8 Allocation of funds for APVV projects in 2020

Department	Project number		Principal Investigator	Allocated funds	Number of projects in the department	Total allocation per department
	TUZVO	Ministry of Education and Science of the Slovak Republic		Common		Common
KND	APVV-16-0177	06K1168	prof. Kúdela	73 784	1	73 784
KCHCHT	APVV-16-0326	06K1165	prof. Kačík	62 670	1	62 670
CODE	APVV-17-0456	06K1174	prof. Dzurenda	55 996	1	55 996
KDT	APVV-17-0583	06K1171	prof. Reinprecht	67 218	3	90 677
	APVV-19-0269	06K1190	doc. Réh	21 459		
	SK-PL-18-0052	06K1176	prof. Clement	2 000		
KNDV	APVV-18-0378	06k1179	prof. Sedliačik	53 460	1	53 460
KPO	APVV-17-005	06K1173	prof. Kačíková	61 831	1	61 831
KDS	APVV-17-0206	06K1175	prof. Štefko	63 092	1	63 092
Total 2020				**461 510**	**9**	**461 510**
Total 2019				487 183	12	487 183
Total 2018				355 623	10	355 623
Total 2017				253 287	7	253 287

In 2020, 9 scientific research projects and one bilateral APVV project were solved by DF staff. In terms of allocated funds, there was a year-on-year decrease of 25 673 € (-5.3%). On average, 57 689 € were allocated per APVV scientific research project (48 193 €/project in 2019).

In 2020, within the framework of the public call FP2020, the DF is involved in 7 submitted projects (5 as applicant and 2 as co-investigator organisation).

Last year, the PhD students of the Faculty of Wood Sciences and Technology received three funded grants from the internal project agency IPA at TU Zvolen (Table III-9) in the total amount of 2 767 €.

Tab. III-9 Allocation of funds for IPA TUZVO projects in 2020

Department	Project number	Principal Investigator	Retrieved from funds in €	Number of projects	Allocated funds per department total in €
			Common		Common
KMOSL	7/2020	Ing. Slašťanová	878	1	878
KND	15/2020	Ing. Andrejko	933	2	1 889
	17/2020	Ing. Slováčková	956		
		TOTAL		**3**	**2 767**

Table III-10 summarises the evolution of the amount of funding allocated to all DF projects in 2017-2020.

The overview shows a clear year-on-year decrease in the volume of funds for KEGA, VEGA, APVV and MVTS projects. There was an increase in funds for IPA TUZVO projects and especially for projects classified in the category of other. As in previous years, the top team

"WoodMat" was supported by a direct subsidy from the Ministry of Education and Science in the amount of € 24 000.

The overall year-on-year decrease in funding received for all projects and tasks is €11 253 (-1.5%).

Tab. III-10 Evolution of the volume of funds allocated to all projects in 2017-2020 in €

Projects	r. 2017	r. 2018	r. 2019	r. 2020
VEGA	116 282	135 913	127 586	112 814
KEGA	30 389	39 026	44 191	34 842
APVV	253 287	355 623	487 183	461 510
MVTS	3 200	0	18 016	2 272
7. RP	0	0	0	0
IPA TUZVO	3 477	900	1 895	2 767
Other	8 000	0	31 297	84 710
Top team "WoodMat"	-	24 000	24 000	24 000
Total	**414 635**	**555 462**	**734 168**	**722 915**

III. 2.3 INTERNAL PROJECT AGENCY OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

Based on the need for development and targeted support of scientific, research, pedagogical, artistic and other activities at The Faculty of Wood Sciences and Technology of the Technical University of Zvolen, the Internal Project Agency of The Faculty of Wood Sciences and Technology (IPA DF) was established. IPA DF is established as a professional entity of the faculty, which, among other things, purposely supports with financial means significant publishing and artistic activities of the faculty staff.

There is a permanent open call for applications for funding for the costs associated with the publication of accepted scientific papers in the journals of the Current Contents Connect (CCC) database maintained by Web of Science in journals ranked in quartiles Q1 and Q2. The aim of this call is to support the publishing and artistic activities of the staff of The Faculty of Wood Sciences and Technology by subsidising the costs associated with the publication of papers in the CCC database journals or significant artistic outputs. The call and the application form are available on the website of TUZVO (https://df.tuzvo.sk/sk/narodne-projekty).

In 2020, 24 applications for co-financing of publications included in the CCC database were supported by the DF management. A list of supported publications is provided in Table III-11. A total of €14 220 was used to support publications in 2020.

In the previous year 2019, a total of 20 publications were supported under the IPA DF call with a total amount of € 12 578.

Tab. III-11 List of CCC publications supported by IPA DF in 2020

č.	Authors	Title, journal, IF, JCR quartile	Approved support v €
1	Ladislav Reinprecht, Miroslav Repák	The impact of paraffin-thermal modification of beech wood on its biological, physical and mechanical properties, *Forests*, IF 2,221 (2019), Q1 JCR	791
2	Tatiana Bubeníková, Martin Bednár, Tomáš Gergeľ, Rastislav Igaz	Adsorption Effect of Added Powder Graphite on Reduction of Volatile Organic Compounds Emissions from Expanded Polystyrene, *BioResources*, IF 1,409 (2019), Q2 JCR	405
3	Ružiak, I., Koštial, P., Vlček, J., Koštialová, J.Z., Špačková, H., David, J., Frischer, R.	Effective Ecological and Cheap Heating of Dwelling Spaces, *Sustainability*, IF 2,576 (2019), Q2 JCR	565
4	Réh, R., Krišťák, Ľ., Tudor, E., Barbu M.C., Petutsching, A.	Analysis of Larch-Bark Capacity for Formaldehyde Removal in Wood Adhesives, *International journal of environmental research and public health*, IF 2,849 (2019), Q1 JCR	762
5	Richard Kminiak, Mikuláš Siklienka, Rastislav Igaz, Ľuboš Krišťák, Tomáš Gergeľ, Miroslav Němec, Roman Réh, Alena Očkajová, Martin Kučerka	Effect of cutting conditions on quality of milled surface of medium-density fiberboards, *BioResources*, IF 1,409 (2019), Q2 JCR	637
6	Anton Geffert, Jarmila Geffertová, Eva Výbohová, Michal Dudiak	Impact of Steaming Mode on Chemical Characteristics and Colour of Birch Wood, *Forests*, IF 2,221 (2019), Q1 JCR	969
7	Ladislav Dzurenda, Anton Geffert, Jarmila Geffertová, Michal Dudiak	Evaluation of the Process Thermal Treatment of Maple Wood Saturated Water Steam in Terms of Change of pH and Color of Wood, *BioResources*, IF 1,409 (2019), Q2 JCR	624
8	Pavlo Bekhta, Ján Sedliačik, Nataliya Bekhta	Effect of Veneer-Drying Temperature on Selected Properties and Formaldehyde Emission of Birch Plywood, *Polymers*, IF 3,426 (2019), Q1 JCR	373
9	Pavlo Bekhta, Ján Sedliačik, Nataliya Bekhta	Effect of Selected Parameters on the Bonding Quality and Temperature Evolution Inside Plywood During Pressing, *Polymers*, IF 3,426 (2019), Q1 JCR	343
10	Richard Hrčka, Viera Kučerová, Tatiana Hýrošová, Vladimír Hönig	Cell Wall Saturation Limit and Selected Properties of Thermally Modified Oak Wood and Cellulose, *Forests*, IF 2,221 (2019), Q1 JCR	479
11	Hubert Paluš, Ján Parobek, Martin Moravčík, Miroslav Kovalčík, Michal Dzian, Vlastimil Murgaš	Projecting climate change mitigation potential of HWPs under different scenarios of wood utilisation: study of Slovakia, *Sustainability*, IF 2,576 (2019), Q2 JCR	516
12	Erika Loučanová, Martina Nosáľová	Eco-innovation Performance in Slovakia: Assessment Based on ABC Analysis of Eco-innovation Indicators, *BioResources*, IF 1,409 (2019), Q2 JCR	684

13	Ivan Klement, Peter Vilkovský, Tatiana Vilkovská	The Effect of Contact-Drying on Physical Properties of European Beech (Fagus sylvatica L.), *Forests*, IF 2,221 (2019), Q1 JCR	694
14	Ivan Klement, Tatiana Vilkovská, Peter Vilkovský, Štěpán Hýsek	Structural Differencwes between Reaction Wood and Opposite Wood with Different Drying Temperatures, *BioResources*, IF 1,409 (2019), Q2 JCR	560
15	Jozef Kúdela, Ivan Kubovský, Michal Andrejko	Surface Properties of Beech Wood After CO2 Laser Engraving, *Coatings*, IF 2,436 (2019), Q2 JCR	550
16	Danica Kačíková, Ivan Kubovský, Nikoleta Ulbriková, František Kačík	The Impact of Thermal Treatment on Structural Changes of Teak and Iroko Wood Lignins, *Applied sciences*, IF 2,474 (2019), Q2 JCR	794
17	Koštial, P., Koštialová-Jančiková, Z., Ružiak, I., Gajtanska, M.	Case Study of Chosen Sandwich-Structured Composite Materials for Means of Transport, *Coatings*, IF 2,436 (2019), Q2 JCR	671
18	Tudor, E., Dettendorfer, A., Kain, G., Barbu, M.C., Réh, R., Krišťák, Ľ.	Sound-Abrosption Coefficient of Bark-Based Insulation Panels, *Polymers*, IF 3,426 (2019), Q1 JCR	739
19	Mária Moresová, Mariana Sedliačiková, Jarmila Schmidtová, Iveta Hajdúchová	Green Development in the Construction of Family Houses in Urban and Rural Settlements in Slovakia, *Sustainability*, IF 2,576 (2019), Q2 JCR	721
20	Ladislav Reinprecht, Zuzana Vidholdová, Ján Iždinský	Bacterial and Mold Resistance of Selected Tropical Wood Species, *BioResources*, IF 1,409 (2019), Q2 JCR	689
21	Miroslava Mamoňová, Ladislav Reinprecht transferred prof. Reinprecht	The impact of natural and artificial weathering on the anatomy of hardwoods, *IAWA journal*, IF 1,627 (2019), Q2 JCR	585
22	Miroslava Mamoňová, Ladislav Reinprecht transferred by prof. Kudel	The impact of natural and artificial weathering on the anatomy of hardwoods, *IAWA journal*, IF 1,627 (2019), Q2 JCR	585
23	Alena Očkajová, Marián Kučerka, Richard Kminiak, Ľubš Krišťák, Rastislav Igaz, Roman Réh	Occupational Exposure to Dust Produced when Thermally Modified Wood, *International journal of environmental research and public health*, IF 2,849 (2019), Q1 JCR	334
24	Anton Stolár	Stand lamp Roxano, ZXZ, 4th place, A' Design Award and Competition, OMC Design Studios S.R.L., Como, Italy,	150
		Total amount	**14 220**

III. 3. PUBLISHING AND ARTISTIC ACTIVITIES

III. 3.1 PUBLICATIONS

Collection, categorization, registration and archiving of publication activities of teaching and scientific staff is carried out in accordance with the Decree of the Ministry of Education and Science of the Slovak Republic No. 456/2012 and the internal Organizational Directive of the Technical University in Zvolen No. 7/2013. From 1 January 2021, a new decree (No. 397/2020 Coll.) came into force, which changes the categorization of outputs and responses.

Category groups A1, A2, B, C and D are defined groups of publication categories according to the Methodology for the allocation of state budget subsidies for public universities. This breakdown is important from the point of view of the allocation of funds, with the size of the financial contribution within the subsidy being in the order B, C, A1, A2, D and X (in descending order).

In Tab. III-12 the publication activity is evaluated by individual departments of the Faculty of Wood Sciences and Technology according to the SLDK records.

Tab. III-12 Overview of publication activity by DF departments in 2020

Code	Publication category	KDT	KMDG	KND	KFEAM	KNDV	KCHCHT	KDNI	KDS	CODE	KEMP	KMOSL	KPO	**Σ DF 2020**	Σ DF 2019	Σ DF 2018	Σ DF 2017
A1	AAA, AAB, ABA, ABB, ABC, ABD	1	-	-	-	-	-	2	-	-	1	3	3	**10**	10	12	18
A2	ACA, ACB, BAA, BAB, BCB, BCI, EAI, CAA, CAB, EAJ, FAI	-	2	-	1	1	2	4	1	2	2	1	5	**17**	21	47	31
B	ADC, ADD, BDC, BDD, CDC, CDD, AGJ	14	5	6	14	4	12	9	-	6	10	2	4	**62**	59	67	45
C	ADM, ADN, BDM, BDN	1	6	5	2	6	3	-	5	6	16	8	5	**50**	50	52	55
D	ACC, ACD, ADE, ADF, AEC, AED, AEG, AEH, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, AEM, AEN, BBA, BBB, BCK, BDA, BDB, BDE, BDF, BEC, BED, BFA, BFB, BGH, CBA, CBB, CDE, CDF	3	3	5	4	5	6	12	10	15	22	36	22	**133**	179	313	264
X	Uncategorized	-	-	-	-	-	-	2	1	-	1	1	5	**10**	21	20	32
	Total	19	16	16	21	16	23	29	17	29	52	51	44	**282**	340	511	445

Note : Group A1Book publications in the nature of scientific monographs.
Group A2Other book publications.
Group BPpublications in CCC scientific journals, author certificates, patents and discoveries.
Group CPublications that are not in CCC but are registered in WoS or Scopus databases.
The group DOsubstantial publications.
Group X Uncategorized.

In aggregate, there is a clear decrease in the number of reported publications (-17.1%). This decrease occurred in categories D (-25.7%), A2 (-19.1%) and X (-52.4%), which are the least significant in terms of funding. On the other hand, there was an increase in the number of reported outputs in category B, which is the most valuable in terms of subsidy (+5.1%). For comparison, a paper from a domestic peer-reviewed scientific conference (AED, category D) is worth €50 in the subsidy system and an article in CCC Q2 (ADC, category B) is worth €12 517 (for 2020).

The increase in the number of reported publications in the ADC category (scientific papers in peer-reviewed journals), where there is an increase of 4.3%, and especially a significant increase in the proportion of outputs classified in Q1, can be positively assessed. The financial contribution of database publications depends on their classification in quartiles according to the scientometric database JCR (WOS) or SJR (Scopus).

In Tab. III-12a and III-12b is an overview of the number of reported publication outputs in journals registered in the CCC database classified into individual quartiles according to JCR and the number and classification of outputs in the AGJ category.

Tab. III-12a Number of publications in the CCC database by quartile

Reporting year	Q1	Q2	Q3	Q4	Together
2020*	**19**	**28**	**1**	**1**	**49**
2019	13	29	4	1	47
2018	9	33	3	1	46
2017	5	30	2	2	39

Note *Publication ranking for 2020 is according to the quartile assigned for 2019

Tab. III-12b Structure of reported outputs in the AGJ category

Reporting year	patents	benefit. Designs	designs	ochr. Stamps	Together
2020	**0**	**0**	**13**	**0**	**13**
2019	1	1	10	0	12
2018	1	5	15	0	21
2017	0	0	4	0	4

Tab. III-13 Overview of responses by DF departments registered in 2020

Code	Category of responses and i.	KDT	KMDG	KND	KFEAM	KNDV	KDS	KCHCHT	KDNI	CODE	KEMP	KMOSL	KPO	Σ DF 2020	Σ DF 2019	Σ DF 2018	Σ DF 2017
1	Citations in foreign publications registered in Web of Science and SCOPUS citation indexes	206	49	99	160	106	20	229	6	102	307	119	151	**1210**	905	779	492
2	Citations in domestic publications registered in Web of Science and SCOPUS citation indexes	23	7	22	12	19	2	37	1	5	26	25	24	**158**	123	146	206
3	Citations in international publ. not. in citation indexes	41	8	11	16	16	2	12	2	9	85	27	16	**200**	138	156	183
4	In-house citations. publ. no. in citation indexes	16	4	18	12	14	4	24	7	19	3	2	10	**99**	147	371	303
5	Reviews in foreign publications	-	-	-	-	-	-	-	-	-	-	-	-	**0**	0	0	0
6	Reviews in domestic publications	-	-	-	-	-	-	-	-	-	-	-	-	**0**	2	0	2
7	Art criticism foreign	-	-	-	-	-	-	-	-	-	-	-	-	**0**	0	0	0
8	Art criticism domestic	-	-	-	-	-	-	-	-	-	-	-	-	**0**	0	0	0
9	Award for artistic activity (acclaim)	-	-	-	-	-	-	-	-	-	-	-	-	**0**	0	0	0

Total in 2020	**286**	**68**	**150**	**200**	**155**	**28**	**302**	**16**	**135**	**421**	**173**	**201**	**1667**
r. 2019	149	63	163	134	124	17	179	24	120	415	96	155	1315
r. 2018	185	67	158	136	153	5	240	16	172	348	130	191	1452
r. 2017	139	46	141	100	142	21	134	10	86	355	99	172	1186

In Tab. III-13 is a detailed overview of the number of citations and references registered in 2020, divided into individual departments of the Faculty of Wood Sciences and Technology, as prepared from the SLDK data. A significant year-on-year increase in the total number of registered citations is observed (+26.8%), It is possible to evaluate positively especially the significant increase in citations in the category of references 1 - foreign citations registered in WoS and Scopus (+33.7%).

Searching and registering citations and references, especially from the Web of Science and Scopus databases, needs continued attention. Publication citations play a particularly important role in the accreditation process.

III. 3.2 ARTISTIC ACTIVITIES

The outputs of artistic activities are evaluated in accordance with Decree 456/2012 of the Ministry of Education and Science of the Slovak Republic of 18 December 2012 on the central register of publications and the central register of artistic activities and are an integral part of the evaluation of the university and the basis for calculating the amount of the subsidy.

In Tab. III-14 gives an overview of the artistic activity for the period under review, as produced by the staff of the Department of Furniture and Interior Design, which is the only department at TUZVO to show outputs in the field of artistic activity. The outputs listed in the table are still subject to control by the Council of Guarantors of Art Universities in the CTI SR.

Tab.III-14 Overview of reported artistic activity (KDNI) for the years 2017-2020

Total in the group				**Group Z - Major works of art and performances**				
2017	**2018**	**2019**	**2020**					
				ZYY	ZXZ	ZXY	ZXV	
5	4	4	**12**	5	2	4	1	
				Group Y - Minor works of art and performances				
				YZV	YYY	YYV	YXV	
10	7	18	**16**	4	1	5	6	
				Group X - Other works of art and performances				
				XZV	XXV			
5	7	21	**8**	1	7			

While there was a decline in the total number of reported artistic outputs in 2020, there was a significant increase in the most valuable category Z (major works of art). The development of the share of reported artistic activity of the TUZVO in national terms has a long-term downward trend (Table III-14a). For the calculation of the share of artistic production for 2020, the outputs recorded in 2017 and 2018 are assessed.

Tab.III-14a Share of TUZVO (KDNI) in the total reported artistic output of Slovak public universities (source www.minedu.sk)

Year	2017	2018	2019	**2020**
Share (%)	0,774	0,538	0,332	**0,245**

III. 3.3 SCIENTIFIC JOURNAL ACTA FACULTATIS XYLOLOGIAE ZVOLEN

The journal **Acta Facultatis Xylologiae Zvolen (AFXZ) is a continuation of the periodical "**Proceedings of Scientific Works" of the Faculty of Forestry and Wood Technology of the University of Forestry and Wood Technology, the first issue of which was published in 1958. It publishes original peer-reviewed theoretical and experimental scientific papers in the areas of: wood structure and properties, wood processing, machining, drying, modification and protection processes, thermal stability, combustion and fire protection, furniture construction and design, wooden building structures, economics and management of the wood processing industry. It also provides space for the presentation of opinions in the form of reports and book reviews by national and international authors. It is published on the TUZVO website (https://df.tuzvo.sk/sk/acta-facultatis-xylologiae-zvolen) and is indexed in the databases Web of Science, Scopus, ProQuest, Agricola and Scientific Electronic Library. **It has been assigned the international standard serial number ISSN 1336-3824, and since issue 2/2015, each published article is assigned a DOI (Digital Object Identifier) number.**

The AFXZ Editorial Board in 2020 consisted of:

prof. Ing. Ján Sedliačik, PhD. - Chairman
prof. Ing. Ladislav Dzurenda, PhD. - scientific editor
prof. RNDr. Danica Kačíková, PhD. - member
prof. RNDr. František Kačík, PhD. - member
prof. Ing. Ing. Jozef Kúdela, CSc. - member
prof. Ing. Ladislav Reinprecht, CSc. - member
prof. Ing. Jozef Štefko, CSc. - member
doc. Ing. Pavol Joščák, CSc. - member
doc. Ing. Hubert Paluš, PhD. - member
Mgr. Žaneta Balážová, PhD. - language editor
Antónia Malenká - technical editor

International Advisory Board:

prof. dr. Pavlo Bekhta, DrSc. - Ukraine
prof. Dr. Nencho Deliiski, DrSc. - Bulgaria
prof. dr. sc. Denis Jelačić - Croatia
prof. Dr. Bohumil Kasal - USA
prof. Dr. Remy Marchal - France
prof. Ing. Miloslav Milichovský, DrSc. - Czech Republic
prof. Dr. Róbert Németh - Hungary
prof. Dr. Peter Niemz - Switzerland
prof. dr. hab. eng. Kazimierz Orlowski - Poland
prof. Dr. Franc Pohleven - Slovenia
prof. Ing. František Potůček, CSc. - Czech Republic
prof. Dr. Alfréd Teischinger - Austria
prof. dr. hab. eng. Jerzy Smardzewski - Poland
Dr. h.c. prof. Ing. Mikuláš Šupín, CSc. - Slovakia
prof. Dr. Richard P. Vlosky - USA
prof. Dr. Rupert Wimmer - Austria

In 2020, two issues of Acta Facultatis Xylologiae Zvolen were published (Vol. 62, No. 1/2020 and Vol. 62, No. 2/2020), in which a total of 30 articles were published. The content and full texts of the published articles are freely available on the website: https://df.tuzvo.sk/sk/archive-afxz.

III. 4. SCIENTIFIC AND PROFESSIONAL EVENTS

An important form of presentation of the results of the research of the Faculty of Wood Sciences and Technology to the professional public, as well as confrontation and constructive discussion of the results with other authors, is the presentation of the results at scientific and professional events. In addition to the participation of our staff in such events, the Faculty of Wood Sciences and Technology organizes or co-organizes a number of scientific and professional events each year. An overview of the events organised in 2020 by department can be found in Tables III-15 and III-16.

Tab. III-15 Scientific and professional events in 2020

Department	Name sponsor	type	Participation Total/incl.	Deadline Place
DF	**Science around wood, design around science** prof. Ing. Ján Sedliačik, PhD.	with	12/0	09. - 15.11.2020 TU Zvolen
KND	**Interaction of wood with different forms of energy** doc. Ing. Miroslava Mamoňová, PhD.	with	20/4	12.02. a 16.09.2020 TU Zvolen
KMDG	**Geometry principles in inanimate nature as a source of inspiration for design** Ing. Denisa Lizoňová, ArtD.	wo	20/0	28. - 29.1.2020 TU Zvolen
KDS	**Exhibition of the awarded projects "Wooden Building of the Year"** prof. Ing. Jozef Štefko, CSc.	from	76/0	30.06.2020 **Online**
	Design strategy for almost zero-standard timber buildings (A0 and A+) prof. Ing. Jozef Štefko, CSc.	by	48/0	16.12.2020 **Online**
CODE	**XII. International Scientific Conference "Chip and Chipless Woodworking 2020"** prof. Ing. Ladislav Dzurenda, PhD. Ing. Adrián Banski, PhD.	by	10/11	17.09.2020 TU Zvolen **Online**
KDNI	**FOODPRINT - we are what we eat ...** Mgr. Elena Farkašová, PhD. doc. PhDr. Miroslav Zelinský, CSc.	from	150/45	04.03. - 22.04.2020 Satellite Gallery SCD Bratislava
KPO	**Systematic approach to the study of changes in fire parameters using progressive analytical and forensic methods - 2nd scientific seminar for the project APVV-17-00** prof. RNDr. Danica Kačíková, MDC., PhD.	with	27/0	21.10.2020 TU Zvolen **Online**
	Advances in Fire & Safety Engineering 2020 prof. Ing. Karol Balog, PhD. - MtF STU Bratislava prof. RNDr. Danica Kačíková, MSc., PhD.	by	50/10	22.10.2020 MfF in Trnava **Online**
	Progressive methods for evaluation of the contribution of lignocellulosic materials and products to fire development after fire protection treatments - colloquium on the project VEGA 1/0493/18 prof. RNDr. Danica Kačíková, MSc., PhD.	kol	15/0	23.10.2020 TU Zvolen **Online**

	Implementation of Progressive Technologies, Methods and Forms of Education in the Field of Study Security Sciences (AFSE 2020 side event) prof. RNDr. Danica Kačíková, MSc., PhD.	by	50/10	22.10.2020 MfF in Trnava **Online**
	News in science, research and practice in the field of Security Sciences Ing. Veronika Veľková, PhD.	wo	147/0	19.11.2020 TU Zvolen **Online**

Note: co-conference, sy-symposium, se-seminar, co-exhibition, co-colloquium, wo-workshop, pre-lecture

Tab. III-16 Other events organised at the DF in 2020

Department	Name (guarantor)	type	Participation Total/incl.	Deadline
DDF	**Open Day** Ing. Adrián Banski, PhD.	pr	100/0	28.01.2020 TU Zvolen
KPO	**Children's Firefighting University 2020** prof. RNDr. Danica Kačíková, MSc., PhD.	pr	50/1	10.12. a 17.12.2020 IX. ZŠ Zvolen

Note: as- academic festival, competition, pr-presentation, ku-course, se - seminar

III. 5. STUDENT SCIENTIFIC, PROFESSIONAL AND ARTISTIC ACTIVITIES

III. 5.1STUDENT SCIENTIFIC AND PROFESSIONAL ACTIVITIES (SWOČ)

The ŠVOČ conference was not held in 2020 due to the global pandemic COVID-19 and related measures.

III. 5.2 STUDENT COMPETITION "PROFESSOR JINDŘICH HALABALU PRIZE 2020"

The student competition "Professor Jindřich Halabalu Prize 2020" was held online in 2020 due to the current situation. The organiser last year was the Institute of Furniture, Design and Housing, Faculty of Forestry and Wood Technology, Mendel University in Brno.

KDNI DF students won two prizes:

The main prize prof. Jindřich Halabala in the category - Interior Design (thesis) were awarded to:
Katarína Csúzová, Anita Urban
Job title: **hotel in the forest - forest in the hotel**
Head teacher: **Ing. Zuzana Tončíková, ArtD., Ing. arch. Martin Somora, ArtD.**

The award in the category - Interior Design (final thesis) went to:
Katarína Csúzová
Thesis title: **biophilia in space**
Head teacher: **Ing. Zuzana Tončíková, ArtD.**

IV. EXTERNAL RELATIONS OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

IV. 1. EXTERNAL RELATIONS AND INTERNATIONAL COOPERATION OBJECTIVES

According to the Long-term plan of The Faculty of Wood Sciences and Technology (DF) of TU Zvolen in the field of public relations, national and international cooperation for the years 2017-2023, the strategic goal is to build a positive image of the Faculty and strengthen national and international cooperation. The achievement of the strategic goal is realized through the following tasks:

a. **To popularize the results of scientific research, pedagogical and other activities of the faculty to the general public.**
   Indicator: number of faculty outputs and events and number of participants.

b. **Strengthen communication with the media and the public and promotion/marketing of the faculty.**
   Indicator: number of media outputs and responses to the activities of the faculty, position in rankings of universities and research institutions.

c. **Strengthen cooperation with economic and social practice - from private industry to public institutions.**
   Indicator: Number of cooperation contracts and count of their implementation. Participation of faculty members in expert committees and councils.

d. **Promote student and staff mobility.**
   Indicator: Percentage of students and staff undertaking student and staff mobility or work experience abroad.

e. **Strengthen cooperation with professionally and professionally close departments of V4 and EU universities and international organisations.**
   Indicator: number of joint scientific publications registered in CCC, Web of Science, joint projects, participation in COST.

The present report summarises the activities carried out in the field of external relations at the Faculty of Wood Sciences and Technology in 2020, assesses the implementation of the tasks carried out so far and proposes measures for further improvement of external relations and international cooperation. The deduction of the fulfilment or partial fulfilment of individual tasks in 2020 is linked to the development of the university environment as well as a number of influences of the economic and social environment.
Activities in the field of external relations and building international cooperation of The Faculty of Wood Sciences and Technology in Zvolen are focused on expanding contacts and cooperation of the Faculty with foreign and domestic partners and workplaces, participation in international scientific, artistic, higher education organizations, participation of faculty employees in international projects of science, teaching, research and development, and to increase the visibility and strengthen the position of The Faculty of Wood Sciences and

Technology in the national as well as international educational and scientific research space. The basis for the development of the Faculty's external relations and cooperation has long been the individual cooperation of employees and departments with partners in the Slovak Republic and abroad.

IV. 2. MOBILITY OF STUDENTS AND TEACHERS

Cooperation between the Faculty of Wood Sciences and Technology and foreign partners in the field of student and teacher mobility is implemented on the basis of implementing agreements and cooperation programmes. Within the ERASMUS+ programme, approximately 40 bilateral agreements are available for student and teacher mobility at the Faculty of Wood Sciences and Technology, based on overlapping fields of study. The number of inter-institutional cooperation agreements is steadily increasing thanks to the expansion of contacts and international cooperation at the individual departments of the Faculty of Wood Sciences and Technology as well as at the University. Among the most important partners of the DF are the following universities.

Foreign university	State	Area of cooperation
Salzburg University of Applied Sciences (FHS)	A	Design
University of Forestry, Sofia	EN	Wood Industry, Design, Economics and Management
Howest, University of Applied Sciences	B	Design
Mendel University in Brno	EN	Woodworking, Design
Czech University of Agriculture in Prague	EN	Woodworking
VŠB-Technical University Ostrava	EN	Chemistry, Security Sciences, Materials Sciences
University of Pardubice	EN	Economics and Management
Tomas Bata University in Zlín	EN	Design, Economics and Management
University of Technology and Economics in České Budějovice	EN	Economics and Management
University of Defence Brno	EN	Security Sciences
Technische Universität Dresden	D	Woodworking
Hochschule Ostwestfalen-Lippe	D	Woodworking
Hochschule Wismar	D	Design, Economics and Management
Escuela De Arte Y Superior De Diseño Orihuela	ES	Design
University of Zagreb	HR	Material Sciences
College of Slavonski Brod	HR	Sport
University College near Karlovac	HR	Security Sciences
National University of Public Service Budapest	HU	Security Sciences
University of West Hungary	HU	Wood Technology, Materials Science
Academy of Fine Arts in Katowice	EN	Art and Design
Gdansk University of Technology	EN	Engineering
Glowna Szkoła Glowna Služby Požiarniczej Waršava	EN	Security Sciences

Warsaw University of Life Sciences	EN	Economics and Management
University of Zielona Góra	EN	Education
Instituto Politecnico do Porto	P	Economics and Management
Transilvania University of Brasov	RO	Woodworking
Karelia University of Applied Sciences	SF	Design
Lahti University of Applied Sciences	SF	Woodworking
University of Ljubljana	SI	Material Sciences
Suleyman Demirel University	TR	The chemistry of wood
Cardiff Metropolitan Universit	UK	Art and Design
University of applied Sciences Burgenland	AT	Economics and Management

In 2020, 14 persons from abroad were recruited at the Faculty of Wood Sciences and Technology of the TUZVO within the framework of foreign relations and 23 employees of the Faculty of Wood Sciences and Technology were sent abroad. **In 2020, staff mobility as well as international activities were significantly negatively affected by the epidemiological situation related to the COVID-19 virus.** An overview of recruited and seconded staff and actions by focus is presented in the Tabular Annex in Tables IV-3 to IV-5.

In cooperation with the External Relations Department of the Rector's Office of the TU, information on the possibilities of international mobility as well as on how to implement them during the pandemic was regularly sent out electronically to students and employees of the TU in 2020. Study abroad opportunities both within the EU and to non-EU countries and current calls from mobility agencies, aimed at study, internships, teaching and stays for students, researchers and teachers are published on the internal TV circuit and the DDF notice board, on the Faculty of Wood Sciences and Technology website, and students and employees are also informed en masse via e-mails and the university information system. Increased efforts to inform students and staff about ERASMUS mobility and work placement opportunities are reflected in the ever-increasing interest of both students and staff in such placements.

In 2020, **1 teacher** completed teacher mobility and 2 **staff** completed training. At least 3 prepared mobilities had to be cancelled already during the preparation process after the purchase of the ticket. The other approved mobilities were not carried out due to the epidemiological situation mentioned above. At the same time, only **3** foreign teachers were recruited to the DF via Erasmus+. During the academic year 2019/2020 in the LS and 2020/2021 in the ZS, **3 students from** the DF studied under ERASMUS+ student mobility and in the LS 2019/2020 **two** students from Germany studied at the DF. **Three** DF students completed their internships abroad in companies. An overview of the ERASMUS+ mobilities is given in the tabular annex in Tables IV-6 to IV-12.

In the academic year 2020/2021, 88 students of nationalities other than Slovak are studying at The Faculty of Wood Sciences and Technology. Mostly from the Czech Republic, **9 students from Ukraine** who study in Slovak language and students from NSR and HR.

In the context of student mobility, a long-standing problem is the low interest of foreign students to study at the Faculty of Wood Sciences and Technology, whether through the Erasmus+ programme or other forms of scholarships. It is important to focus on the promotion of opportunities to study at the Faculty of Wood Sciences and Technology at partner universities. A tool is to use seconded students to provide targeted information on study opportunities and the presentation of the DF. The DF aims to ensure that students going on mobility promote the DF. They have been provided with promotional materials and information brochures in AJ in print and digital formats and have been asked to inform, promote and provide

information about the possibility of studying at DF. It is also important to continuously identify new potential partners and educational institutions that focus on related fields of study and programmes to those currently accredited at the DF.
New presentation materials in English have been created for promotion purposes. At the same time, a new DF brochure has been prepared in terms of content and graphics for printing, which is intended for the professional public and can largely serve as marketing material for the promotion of the DF abroad or for the communication of DF employees with the practice. The finalisation and printing of this material has been postponed due to the pandemic situation.

The vision for the coming years is also to increase the number of incoming teachers and staff within the Erasmus+ programme and the Slovak Academic Information Agency with the aim of internationalising education and information exchange. The tool is to develop such activities within the staff mobility programmes that would lead to the interest of foreign partners in completing a teaching mobility or internship at the Faculty of Wood Sciences and Technology of TU in Zvolen. The Faculty of Wood Sciences and Technology is actively interested in expanding academic cooperation also with non-EU countries. We are actively involved in negotiations on these possibilities, which are initiated by the External Relations Office of TU.

Weaknesses in efforts to increase international and our students' interest in international mobility:

- In 2020, it was the unfavourable epidemiological situation in the world and in Slovakia that prevented a number of planned activities.
- Lower attractiveness of the environment of the "small" town of Zvolen, which may have an impact on the decision of foreign students, for example, even just between Banská Bystrica and Zvolen.
- The specificity of the focus of the study programmes offered, which naturally influences the numbers of potential international students.
- There is still a relatively low interest of our students in joining mobility programmes, which may be related to their low level or self-confidence in language competences, or even to their lower ambitions.

DF's strengths in supporting and promoting international mobility:

- A strong presence of teacher mobility and internships can greatly help in promoting and supporting subsequent student mobility.
- The specific focus of the study programmes offered has its advantages in the case of targeting equally specific foreign universities.
- Presentation of TUZVO as a good central starting point within Slovakia for opportunities to explore the landscape, nature and history.
- Accredited study programme in English Production and utilisation of Wood products, the promotion of which can attract foreign students. Preparation of other study programmes as well as study materials in English for the needs of foreign students.

IV. 3. CONTRACTUAL COOPERATION AND MEMBERSHIP OF ORGANISATIONS

In terms of the long-term plan, the aim of international multilateral and bilateral agreements was to participate in academic activities in the international space and to develop membership and active participation in academic and professional international organisations.

Part of building external relations includes orientation towards domestic institutions and networking aimed at developing cooperation to support teaching activities, participation in research tasks and visibility of results. **An updated list of contracts in force as of 2020, for which the DF staff are responsible, is given in Tabular Annex IV 12.**

IV. 3.1 AREAS OF CONTRACTUAL COOPERATION AND ASSESSMENT OF EXTERNAL RELATIONS

Foreign cooperation of the Faculty of Wood Sciences and Technology is realized on the basis of cooperation agreements with institutions abroad, mobility of employees, participation in professional and scientific events, participation of employees in international projects and on the basis of relations and contacts at the level of departments and employees of the Faculty of Wood Sciences and Technology.

The Faculty of Wood Engineering cooperates at the level of departments and staff with institutions in 24 countries.

IV. 3.2. DETACHED OFFICE IN VOLYN

In the academic year 2019/2020, **48** students studied at the detached workplace of the Faculty of Wood Sciences and Technology of the Technical University in Volyn, Czech Republic, in the accredited four-year study programme **"Wooden Buildings", 11** students in the accredited four-year study programme **"Creation and Construction of Furniture"** and **4 students** in the catching-up study programme **"Construction of Wooden Buildings and Furniture"**.

Students in the academic year 2020/2021: **"Wooden Construction" 47** students, **"Furniture Design and Construction" 18** students.

IV. 3.3 MEMBERSHIP OF INTERNATIONAL ORGANISATIONS, GOVERNING BODIES OF INTERNATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS, BOARDS AND COMMISSIONS

The Faculty of Wood Sciences and Technology is represented by its employees in the following international organisations, councils, committees and commissions based abroad.

ORGANIZATION	Member	Member of the Bureau	President	Observer	reviewer of papers	Member of the Programme Committee	Member of the Supervisory Board
EAA - European Acoustical Association	2	-	-	-	-	-	-
EPS - European Physical Society	5	-	-	-	-	-	-
TC RBA - Technical Committee on Room and Building Acoustics	1	-	-	-	-	-	-
SPBI - Association of Fire Safety Engineering	4	-	-	-	-	-	-
Society of Paper and Pulp Industry	3	-	-	-	-	-	-
American Chemical Society	1	-		-	-	-	-
Scientific Council of FLD ČZU Prague	1	-	-	-	-	-	-

IRG - The International Research Group on Wood Preservation	2	-	-	-	-	-	-
WoodEMA, i.a. - International Association for Economics and Management in Wood Processing and Furniture Manufacturing	13	2	1	-	1	-	1
Management Committee COST Action CA16229	4	-	-	-	-	-	-
PEFC Chain of Custody Working Group, PEFC International, Geneva, Switzerland	-	-	-	1	-	-	-
IAWS - International Academy of Wood Science	2	-	-	-	-	-	-
Trade Union Commission Faculty of Forestry and Wood Technology, Mendel Universityin Brno	7	1	-	-	-	-	-
SWST - Society of Wood Sciences and Technology	1	-	-	-	-	-	-
CSMS - Czechoslovak Microscopical Society	1	-	-	-	-	-	-
EMS - The European Microscopy Society	1	-	-	-	-	-	-
Scientific Council of LDF, MU in Brno	1	-	-	-	-	-	-
ALCA - The American Leather Chemists Association, Lubbock, Texas, USA	1	-	-	-	-	-	-

ORGANIZATION	Member	Member of the Bureau	President	Observer	reviewer of papers	Member of the Programme Committee	Member of the Supervisory Board
International Academic Network Human Potential Development in Central and Eastern EU States	1	-	-	-	-		-
32 nd IBIMA Conference, Seville, Spain - member of the program committee	0	-	-	-	-	1	-
QUARE 2020 Interdisciplinary Scientific Conference for PhD students and assistants | Scientific Conference - program committee member	0	-	-	-	-	1	-
Czech Academy of Agricultural Sciences - Economic Area	1	-	-	-	-	-	-
Economic Commission of ČAZV Prague	1	-	-	-	-	-	-
Social Science & Business Research Network	1	-	-	-	-	-	-
I INCE - International Institute of Noise Control Engineering USA	1	-	-	-	-	-	-
ICA - International Commission for Acoustics	1	-	-	-	-	-	-
Member of the EAA Technical Commission for Room and Building Acoustics	1	-	-	-	-	-	-
IBPSA - International Building Performance Simulation Association	1	-	-	-	-	-	-
Engineers Ireland	1	-	-	-	-	-	-
EBA - European Biomimicry Alliance	1	-	-	-	-	-	-
International Commission "National Student Design Awards 2019"	2	-	-	-	-	-	-
Beijing Forestry University (BFU), Beijing, China - R.E.D., Design for Elderly Association	1	-	-	-	-	-	-
Jury of the Grand Prix Mobitex - professional and student section, Brno, Czech Republic	1	-	-	-	-	-	-
Evaluation jury at Mobitex 2019, Trade Fairs a. s. Brno, Czech Republic	1	-	-	-	-	-	-
Branch Council of Doctoral Studies in Business Management and Economics", FLD ČZU Prague	1	-	-	-	-	-	-

WoodEMA 2020 Conference & ICWST 2020 Conference: 'Sustainability of Forest- based industries in the global economy'. Vinkovci, Croatia	3	-	-		1	-	-
Management Committee COST Action CA18236	2	-	-	-	-	-	-
IAWA - International Association of Wood Anatomists	2	-	-	-	-	-	-
SBPI Association of Fire Safety Engineering (Czech Republic)	4	-	-	-	-	-	-
TOTAL	**77**	**3**	**1**	**1**	**2**	**2**	**2**

IV. 3.4 MEMBERSHIP OF MAJOR DOMESTIC ORGANISATIONS

ORGANIZATION	Member	Administrator	Vice-President	Chairman	expert	Secretary	representative of TUZVO	National Secretary
Art Support Fund of the Ministry of Culture of the Slovak Republic, Commission for Library Support 5.1.1 and 5.1.2	1	-	-	-	-	-	-	-
International jury at the Furniture and Living 2019, Agrokomplex Nitra	1	-	-	-	-	-	-	-
Doctoral Studies Board "Design", FA STU Bratislava	1	-	-	-	-	-	-	-
Advisory body of the Ministry of Culture of the Slovak Republic for Support of Artistic Creation at Universities	-	-	-	-	1	-	-	-
Commission of the Ministry of Education and Science of the Slovak Republic for the preparation and description of fields of study /art	-	-	-	-	1	-	-	-
International Commission of the Student Competition in Furniture and Interior Design Professor Jindřich Halabalu Award 2019	1	-	-	-	-	-	-	-
Slovak Acoustical Society (SKAS)	1	-	1	-	-	1	-	-
Association of Slovak Scientific and Technical Societies	5	-	-	-	-	-	-	-
Slovak Organology Centre	-	-	1	-	-	-	-	-
SÚTN Technical Commission	2	-	-	-	-	-	-	-
Commission for the award of the Quality Mark for timber buildings	6	1	-	-	-	-	-	-
Slovak National Accreditation Service (SNAS) - assessor and expert for construction timber and wood products	1	-	-	-	-	-	-	-
Slovak Chamber of Civil Engineers	1	-	-	-	-	-	-	-
Commission for the award of the Quality Mark for timber buildings	4	1	-	-	-	-	-	-
Working Group of the Accreditation Commission for Research Area 17: "Engineering and Technology"	1	-	-	-	-	-	-	-

Woodworking Congress of TU in Zvolen	2	-	-	-	-	-	-	-
Sectoral Council for Forestry and Wood Processing	1	-	-	-	-	-	-	-
Slovak Society for Quality	1	-	-	-	-	-	-	-
Council of Universities	-	-	-	-	-	-	1	-
Slovak Physical Society	5	-	-	-	-	-	-	-
Union of Slovak Mathematicians and Physicists	6	-	-	-	-	-	-	-
Association of the Pulp and Paper Industry of the Slovak Republic	1	-	-	-	-	-	1	-
Sectoral Council for the Pulp and Paper and Printing Industries	1	-	-	-	-	-	-	-
Slovak University Sports Association - chairman of the chess sports committee	-	-	-	1	-	-	-	-
Executive Board of the Slovak Accreditation Agency for Higher Education (SAAVŠ)	1	-	-	-	-	-	-	-
Slovak Mathematical Society	1	-	-	-	-	-	-	-
ORGANIZATION	**Member**	**Administrator**	**Vice-President**	**Chairman**	**expert**	**Secretary**	**representative of TUZVO**	**National Secretary**
Slovak National Accreditation Service	-	-	-	-	2	-	-	-
PEFC Slovakia	-	-	-	-	-	-	-	1
CITES Advisory Committee of the Ministry of the Environment, Nature Conservation and Landscaping Section	1	-	-	-	-	-	-	-
SÚTN Technical Commission 16	3	-	-	-	-	-	-	-
SÚTN Technical Commission 28	1	-	-	-	-	-	-	-
SK BIOM, Slovak Biomass Association	1	-	-	-	-	1	-	-
SÚTN Technical Commission 21, Acoustics and Mechanical Vibrations	1	-	-	-	-	-	-	-
Presidium of the Voluntary Fire Protection of the Slovak Republic	1	-	-	-	-	-	-	-
Regional organisation of the Voluntary Fire Protection of the Slovak Republic	-	-	-	1	-	-	-	-
Commission of the Ministry of the Interior of the Slovak Republic and the DFPO of the Slovak Republic for the Recodification of Legislation	1	-	-	-	-	-	-	-
Republic Training Staff of DPO SR	-	-	-	1	-	-	-	-
Slovak Chamber of Forestry	1	-	-	-	-	-	-	-
Slovak Association for Geoinformatics	1	-	-	-	-	-	-	-
APPO - Association of Passive Fire Protection of the Slovak Republic	1	-	-	-	-	-	-	-
Slovak Association for Occupational Safety and Health and Fire Protection	1	-	-	-	-	-	-	-
Republican Control and Revision Commission of the DPO SR	1	-	-	-	-	-	-	-
Slovak University Sports Association	1	-	-	-	-	-	-	-
Fire Engineering Association	1	-	-	-	-	-	-	-
Working group for the preparation of special training of fire cause investigators in the HaZZ	1	-	-	-	-	-	-	-
DPO SR - Voluntary Fire Protection of the Slovak Republic	11	-	-	-	-	-	-	-
Working group established for the purpose of elaboration of documents for the implementation of the national education, training and training centre of the HaZZ	1	-	-	-	-	-	-	-

Slovak Mining Society	1	-	-	-	-	-	-	-
TOTAL	**75**	**1**	**2**	**3**	**4**	**2**	**2**	**1**

IV. 3.5 MEMBERSHIP OF INTERNATIONAL AND NATIONAL EDITORIAL BOARDS

JOURNAL	Member	gestor	Deputy Editor-in-Chief	Chairman	Vice-President	Reviewer	scientific editor	editor
Redakčná rada časopisu "Vedecký časopis o kultúre regionu na Slovensku / Scientific Journal of Regional Culture in Slovakia"	1	-	-	-	-	-	-	1
Editorial Board of ACTA UNIVERSITATIS MATTHIAE BELII, ser.: Technical Education	1	-	-	-	-	-	-	-
Council of the Faculty of Science at the Faculty of Science of the University of Science and Technology, Section of Marketing, Business and Innovation Management	-	1	-	-	-	-	-	-
Editorial Board Folia Forestali Polonica Series B - Forestry	1	-	-	-	-	-	-	-
Editorial Board of Wood Research	1	-	-	-	-	-	-	-
Polymers, Special Issue: New Challenges in Wood and Wood-Based Materials	-	-	-	-	-	-	-	2
Applied Sciences, Special Isuue: Application of Wood Composites	-	-	-	-	-	-	-	1
Applied Sciences	-	-	-	-	-	-	-	3
Polymers, Applied Sciences, Sustainability, Forests, Materials, European Journal of Wood and Wood Products, Bioresources	-	-	-	-	-	1	-	-
Editorial Board of Science Nature Technologies	1	-	-	-	-	-	-	-
Scientific Journal of Regional Culture in Slovakia	1	-	-	-	-	-	-	-
Editorial Board of Holztechnologie	1	-	-	-	-	-	-	-
Board of Consultants of the Woodworking Magazine	1	-	-	-	-	-	-	-
Wood Research Editorial Board	1	-	-	-	-	-	-	-
Scientific Board of the LOGI Journal	1	-	-	-	-	-	-	-
Scientific Council of the Grant journal	1	-	-	-	-	-	-	-
Editorial and Scientific Board of the journal Human Resources Management and Ergonomics	1	-	-	-	-	-	-	-
Editorial Board of the Journal of Business Management	-	-	1	-	-	-	-	-
Scientific Board of the Journal of Business Management	-	-	-	-	1	-	-	-

MINIB Marketing of Scientific and Research Organizations	1	-	-	-	-	-	-	-
Editorial Board of Forests	1	-	-	-	-	-	1	-
Editorial Board of Cellulose Chemistry and Technology	1	-	-	-	-	-	-	-
Editorial Board of the DELTA TU Zvolen journal	1	-	-	1	-	-	-	2
Scientific Council of the International Scientific Journal Intercathedra, Poznan	2	-	-	-	-	-	-	-
Editorial Board of the international scientific journal Drvna industrija, Zagreb	1	-	-	-	-	-	-	-
Editorial Board of Studia Universitatis "Vasile Goldiş" Arad. Economic Sciences	2	-	-	-	-	-	-	-
Sustainability (MDPI)	1	-	-	-	-	-	-	-
Editorial Board (reviewer) of the scientific journal Przegląd leśniczy	1	-	-	-	-	1	-	-
Editorial Board of Forestry, Forest, Paper and Woodworking Industry	1	-	-	-	-	-	-	-
Editorial Board of Acta Facultatis Xylologiae	7	-	-	1	-	-	1	-
Editorial Board of Lesotechnicheskij žurnal (WoS)	1	-	-	-	-	-	-	-
Editorial Board of WoodResearch	1	-	-	-	-	-	-	-
Derevo obrobativajuščaja sophistication	1	-	-	-	-	-	-	-
JOURNAL	**Member**	**Host**	**Deputy Editor-in-Chief**	**Chairman**	**Vice-President**	**Reviewer**	**scientific editor**	**editor**
Editorial Board of the journal Akustika	1	-	-	-	-	-	-	-
Editorial Board of the magazine HASIČI - Newsletter of the Fire and Rescue Corps	1	-	-	-	-	-	-	-
Editorial Board of the Open Science Journal	1	-	-	-	-	-	-	-
Problems of risk management in the technosphere", created at the St. Petersburg University of the Ministry of Emergency Situations of the Ministry of Emergency Situations of the Russian Federation	1	-	-	-	-	-	-	-
TOTAL	**38**	**1**	**1**	**2**	**1**	**2**	**2**	**9**

IV. 3.6 IMPLEMENTATION OF INTERNATIONAL PROGRAMMES

Within the ERASMUS+ Call Key Activity KA107 - Mobility of students and staff of HEIs between programme countries and partner countries (ERASMUS+ Credit Mobility), the planned mobilities were not implemented in 2020 due to the epidemiological situation, however, the projects were extended and it is planned to implement the remaining mobilities from the catching-up projects in 2021.

Successfully submitted in January 2020 - 2 Erasmus K107 mobility projects for 36 months with Purdue University USA and Beijing forestry university.

Current ongoing Erasmus KA107 projects for DF

Responsible task solver: doc. Ing. Ján Parobek, PhD.
North-Eastern Federal University - Russian Federation - Yakutia

Responsible task solver: doc. Ing. Ján Parobek, PhD.
Instituto Tecnologico de Costa Rica, Cartago, Costa Rica

Responsible task solver: Ing. Vladislav Kaputa, PhD.
Saint Petersburg State Forest Technical University - Russian Federation

Responsible task solver: doc. Ing. Zuzana Tončíková, ArtD.
PURDUE University, IN, USA

Responsible task solver: doc. Doc. Acad. Prof. René Baďura
Beijing forestry university - China

Due to the epidemiological cooperation, the cooperation within the approved Erasmus KA107 projects was only on the basis of virtual meetings and planning of future mobility activities.

Approved Erasmus project KA202 - Strategic Partnerships in Vocational Education and Training:

Principal investigator: doc. Ing. Richard Kminiak, PhD.
Erasmus+ project name: "Use of CNC technology in wood processing for the purpose of mutual exchange of procedures and good practice examples".
The aim of the Erasmus+ project: improving the teaching of CNC woodworking and wood-based materials. The project is implemented on the basis of the Erasmus+ grant agreement "2019-1-CZ01-KA202-061229" and the subsequent partnership agreement and mutual cooperation in the implementation of the project between the partners Higher Vocational School and Secondary School of Applied Science Volyne, Technical University in Zvolen and Woodworking School Maribor.

IV. 3.7 IMPLEMENTATION OF DOMESTIC EVENTS AND PROJECTS WITH A CONTRIBUTION TO THE EXTERNAL RELATIONS OF THE FACULTY

Department of Furniture and Interior Design (KDNI)

Preparation and realization of the exhibition in Satelit Gallery - SCD in Bratislava
Exhibition - FOODPRINT we are what we eat ... (exhibition duration 4 March - 22 April 2020)

Exhibition (repeat) - FOODPRINT we are what we eat ... in the Peter Michal Bohúň Gallery in Liptovský Mikuláš on October 6, 2020 - duration (October 7, 2020 - February 27, 2021).

Exhibition - Łódź Design Festival 2020 in Łódź, Poland
(exhibition duration 17 September - 20 September 2020)

Exhibition - Bratislava Design Week, Satellite, Gallery of the Slovak Centre of Design (SCD) in Bratislava, Abbonyi Palace, Zoya Gallery, International Festival of Contemporary Design in Slovakia: 3 December 2020 - 7 December 2020

Promotion of KDNI exhibition events in Radio Regina Stred and Radio Devín - interview with curator E. Farkašová, R. Baďur (11/2020) Exhibition (repeat) - FOODPRINT we are what we eat ... in the Peter Michal Bohúň Gallery in Liptovský Mikuláš

Slovakia Going Zero Waste: Panel discussion "No material is as material" (27.9.2020) Z. Tončíková invited to a panel discussion on sustainability in design, circular design and eco-design. Záznam: https://vimeo.com/462320428/5ca54c5f9a

Department of Wooden Structures (KDS):

Event name: Exhibition of the awarded projects "Wooden Building of the Year"
Venue and time: October 2020
Technical University of Zvolen, Faculty of Wood, Department of Wooden Structures, ZSDSR
Gestors: prof. Ing. Jozef Štefko, CSc.

Department of Wood Technology (KDT):

Popularization activities:
Ing. Ján Iždinský, PhD., Ing. Zuzana Vidholdová, PhD.: Presentation of scientific-research and pedagogical activities in the areas of wood composite materials production and wood protection within the "Open Day of The Faculty of Wood Sciences and Technology, Technical University of Zvolen". 28 January 2020, Department of Wood Technology, Faculty Wood Sciences and Technology, Technical University of Zvolen.

Department of Furniture and Wood Products (KNDV):
Ing. Jozef Fekiač, PhD.
Ing. Nadežda Langová, PhD.
Promotion of studies at TUZVO in the form of a lecture at the Secondary Vocational School of Woodworking in Topoľčany 10.2.2020.

Department of Fire Protection (KPO):
In 2020, the Department of Fire Protection cooperated with primary schools in Zvolen in connection with the preparation and organization of the Children's Firefighter University 2020. In view of the epidemiological situation and the measures taken, this cooperation continued preferably with IX. Elementary School, which, in strict compliance with all anti-epidemiological measures, made it possible to carry out the event.

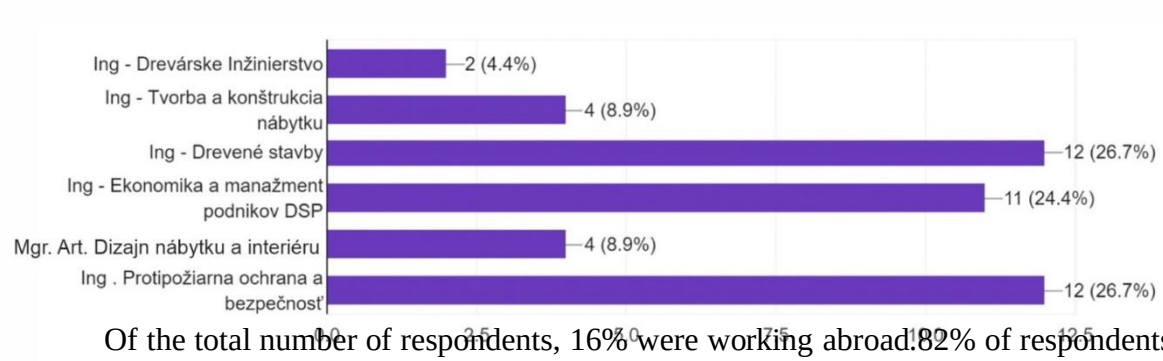
Children's Firefighting University 2020

IV. 4. SURVEY ON THE EMPLOYABILITY OF DF GRADUATES

The management of the Faculty of Wood Sciences and Technology carries out its own research on the employability of graduates of the Faculty of Wood Sciences and Technology in order to find out how successfully and in what areas of social life they will be employed in practice after graduation. The survey is carried out through an anonymous online questionnaire which contains basic information about the graduate's studies, the country of current employment, the industry in which he/she is working and the specific activity he/she performs within the DSP or related industries.

The survey was addressed to **142** full-time and part-time graduates who graduated from one of the engineering or master's degree programmes in the 2018/2019 academic year at the Faculty of Wood Sciences and Technology. The survey was carried out approximately half a year after graduation and in order to obtain the highest possible return rate, questionnaires were sent out in two rounds (January 2019 and **February 2020**). In total, only **45 respondents** out of 132 responded, representing a **return rate of** only **32% this year**. Unfortunately, this is also a possible reason for the distortion of the real data and reduced relevance of the survey results. Of the responding respondents, **78% were** former full-time students and **22%** were external students. The structure of the respondents involved according to the degree completed is shown in Figure IV-1.

Fig. IV-1 Structure of respondents according to the completed studies



Of the total number of respondents, 16% were working abroad. 82% of respondents are currently employed, 4% are self-employed. 9% are unemployed. The rest of the respondents are continuing their studies or are on maternity leave.

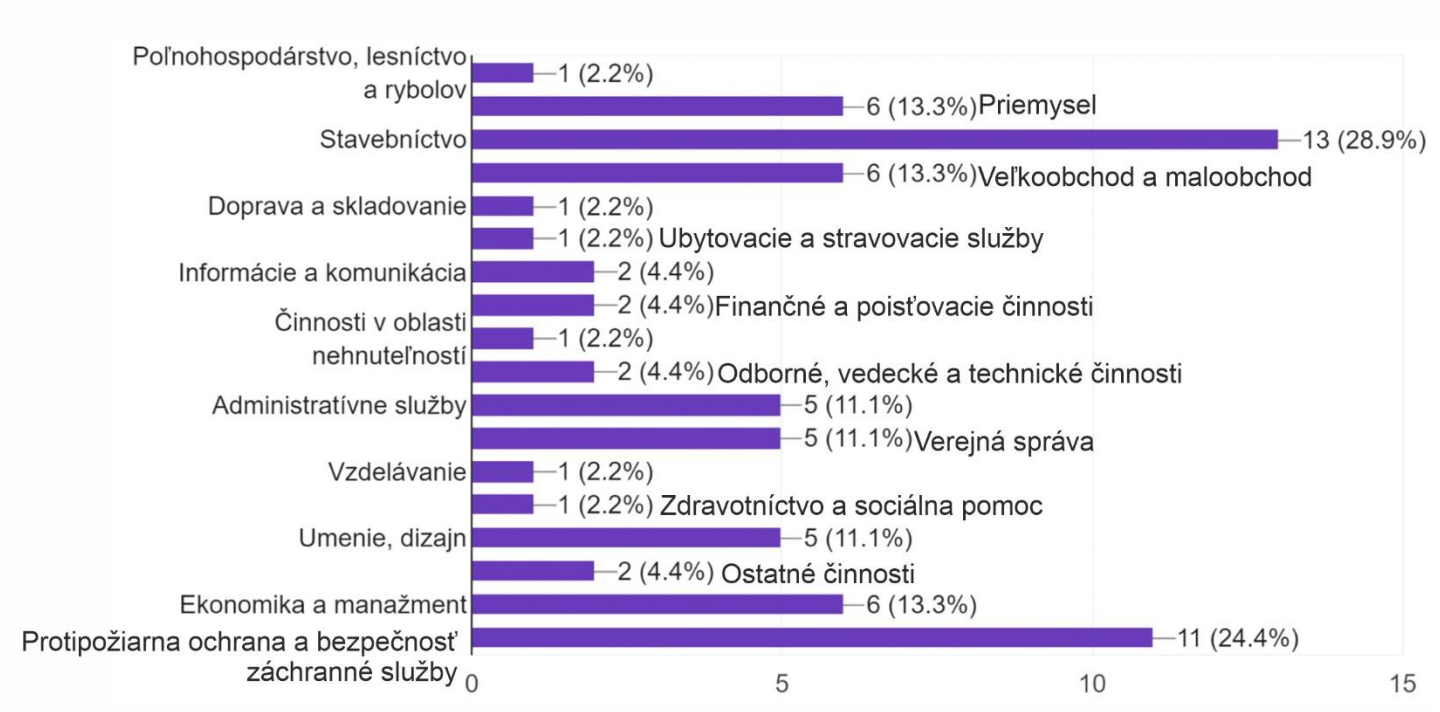
An overview of employment by field of study is given in Table. IV-1

Tab. IV-1 Employment overview by completed study programme

Completed study programme	**Employee/ Entrepreneur**	
	N	%
Wood Engineering	2	100 %
Creation and construction of furniture	4	75 %
Wooden buildings	12	100 %
Economics and Business Management DSP	11	73 %
Fire protection and safety	12	100%
Furniture and interior design	4	100%

An overview of the sectors in which working graduates have found employment is given in Tab. IV- 2.

Tab. IV-2 Employment of graduates by sector



Only 29% of the graduates reported working in the woodworking and related industries. Specific activities include the following: carpentry, furniture manufacturing, primary wood processing, wood products trade, furniture dealer, prefabricated house manager, timber construction and timber building designer.

IV. 5. DEVELOPMENT OF PUBLIC RELATIONS AND RELATED ACTIVITIES

The aim in the area of public relations development is to raise awareness of the DF and its promotion among the lay and professional public.

Activities related to the development of public relations and promotional activities of the DF have been significantly affected by the pandemic situation. A number of traditional and pre-planned events, activities and events had to be cancelled or were conducted through virtual online space.

- Implementation of **a survey on the employability of DF graduates** through a questionnaire survey of 2nd degree graduates;
- Organisation of the **DF Open Day 2020** with the support and co-organisation of all DF departments;
- Promotion of study fields on social networks, in the media, paid advertising;
- Promotion of the DF and news on the DF through **Facebook** and the university website;
- Educational exhibitions and information about study opportunities at the Faculty of Wood Sciences and Technology - implemented online.
- The Faculty of Wood Sciences and Technology in cooperation with SARIO entered into a project aimed at linking faculties with companies in the areas of diploma theses, internships and joint research and development projects;

- Preparation of documents for the publication of a new professional brochure on DF intended primarily for students from abroad, professionals, companies and universities in SJ and AJ.
- Communication with the Ministry of Foreign Affairs of the Slovak Republic and the Embassy in Ethiopia regarding cooperation in the field of consultancy, training and internships for students and staff from Ethiopian institutions in order to promote and develop education and industry in the wood sector.
- Promotion of timber companies in the premises of DF;
- **Comprehensive preparation of the new communication strategy of TUZVO - SK-PR agency;**
- **Week of Science and Technology in Slovakia**; event: **science around wood design around science** - online presentations of doctoral thesis projects broadcasted on the DF youtube channel. https://www.youtube.com/watch?v=V3OuQPNkBMg

A number of traditionally planned events as well as new events have been cancelled for 2020. For example.

- Promotional event of the third annual **"NOC of the Faculty of Wood Sciences and Technology"**
- Workshop in English for students of the Faculty of Wood Sciences and Technology organised in cooperation with **Kronospan**.
- Planned exhibition **Techfórum Nitra 2020**
- Events prepared by individual departments, student organizations and others.

DOMESTIC AWARDS 2020

THE PRIZE FOR THE BEST BOOK PUBLICATION AWARDED BY THE RECTOR OF THE TUZVO

Monograph:
Economic-environmental aspects of the implementation of low-energy wood-based houses

doc. Ing. Marek Potkány, PhD. - Ing. Marek Debnár, PhD. - Ing. Monika Škultétyová

The scientific monograph highlights selected economic and environmental characteristics related to the implementation of low-energy wood-based houses in comparison with the construction of conventional brick houses. The publication should contribute to the potential of increasing the market share of wood buildings in terms of specification of reference conditions for wood buildings, comparison of affordability and cost in operating conditions in the Slovak Republic and the Czech Republic, and especially analyses of life cycle calculations of wood houses with an emphasis on economic and environmental criteria for comparing individual variants.

PRIZE FOR SCIENTIFIC, ARTISTIC OR SCIENTIFIC-ARTISTIC CONTRIBUTION TO INDIVIDUALS AND COLLECTIVES AWARDED BY THE RECTOR OF THE TUZVO

Excellent project:

Reduction of formaldehyde emission from wood-based boards by environmentally progressive modification of polycondensation adhesives with biopolymers from leather waste, natural nanofillers, additives and activators

Principal investigator: prof. Ing. Ján Sedliačik, PhD. and team:
doc. Ing. Jozef Gáborík, CSc.
doc. PaedDr. Ľuboš Krišťák, PhD.
doc. Ing. Roman Réh, CSc.
doc. Ing. Mariana Sedliačiková, PhD.
Ing. Ján Iždinský, PhD.
Ing. Mária Šmidriaková, PhD.
Ing. Boris Lizoň

for the co-host organisation VIPO, a.s. Partizánske:
Ing. Peter Jurkovič, PhD.
Ing. Ján Matyašovský, PhD.

APVV has included the project in the selection of the three most successful completed projects of the Engineering Council from the general call for proposals 2014. The results of the project will be presented in the publication RESEARCH PROJECTS WITH EXCELLENT LEVEL - 2019 issued by the APVV Agency.
As a result of the project, a body of knowledge has been gained on the possibilities of using progressive modifiers, biopolymers and natural additives to reduce the content of free formaldehyde and formaldehyde emissions from glued wood-based boards so that they exhibit properties that comply with current and upcoming European legislation after 2020.

AWARD OF THE PLAQUE J. A. KOMENSKÝ FOR THE YEAR 2020 FOR THE WOODWORKING FACULTY AWARDED BY THE RECTOR OF THE TUZVO:

doc. Ing. Jozef Gáborík, CSc. - for many years of educational work and creative scientific research activity, which significantly contributed to the pedagogical training of highly qualified professionals in the field of design, technology and production of furniture and wood products. During his more than 33 years at the Faculty of Wood Sciences and Technology of the Technical University of Technology in Zvolen, he has significantly contributed to the formation of the pedagogical process in the field.

doc. Ing. Alena Rohanová, PhD. - for many years of valuable teaching and research activities, which significantly contributed to the education of highly qualified professionals

FOREIGN AWARDS 2020

RECTOR'S PRIZE OF THE CZECH AGRICULTURAL UNIVERSITY, PRAGUE, CZECH REPUBLIC

prof. RNDr. František Kačík, PhD.

For a paper published in 2019 in the journal Composites Part B: Engineering (IF = 7,635) (https://doi.org/10.1016/j.compositesb.2019.02.019), a top team leader, Prof. Kačík received the Rector's Award of the Czech Agricultural University, Prague, Czech Republic - for publication in the first decile according to the Article Influence Score (AIS).

IV. 6. TABULAR ANNEX

Tab. IV-3 Overview of recruited and seconded staff by mobility focus in 2020

Type of journey	Adoption	Posting
Direct cooperation	-	1
Conferences, symposia, congresses	-	2
Study stays	1	-
Lecture stays	5	2
Competitions, exhibitions, excursions	-	6
Consultations on interzine. Projects	1	2
Other (consultations, CoR, training, education, refereeing)	4	6
Detached office in Volyn	3	4
TOTAL for 2020	**14**	**23**
TOTAL for 2019	94	168
TOTAL for 2018	154	202

Tab. IV-4 Cumulative number of admissions to the DF in 2020

State	Cooperation stays	Conferences, symposia, congresses	Total
Czech Republic	8	-	8
Poland	3	-	2
Portugal	1	-	1
Serbia	1	-	1
Ukraine	1	-	1
TOTAL for 2020	**14**	**-**	**14**
TOTAL for 2019	36	58	94
TOTAL for 2018	35	119	154

Tab. IV-5 Cumulative number of seconded DF staff for 2020

State	Cooperation stays	Conferences, symposia, congresses	Total
Bulgaria	1	-	1
Czech Republic	10	-	10
Finland	2	-	2
France	1	-	1
Germany	2	-	2
Poland	4	-	4
Austria	1	-	1
Thailand	-	2	2
TOTAL for 2020	**21**	**2**	**23**
TOTAL for 2019	140	28	168
TOTAL for 2018	140	62	202

Tab. IV-6 ERASMUS+ Teacher mobility - teaching in the academic year 2019/2020

Participant's name	Surname of the participant	Receiving institution	Receiving country	Start date	Date of completion
Viera	Kučerová	ČZU Prague	CZECH REPUBLIC	02.09.2019	05.09.2019
Miroslav	German	Mendel University Brno	CZECH REPUBLIC	09.09.2019	12.09.2019
Iveta	Chabalova	Mendel University Brno	CZECH REPUBLIC	30.09.2019	03.10.2019
Tatiana	Drummer	Mendel University Brno	CZECH REPUBLIC	30.09.2019	03.10.2019
Luboš	Krišťák	University of Technology and Economics	CZECH REPUBLIC	08.10.2019	11.10.2019
Milos	Hitka	University of Technology and Economics	CZECH REPUBLIC	08.10.2019	11.10.2019
Jan	Saddler	LAB Univesity of Applied Sciences	Finland	10.2.2020	14.2. 2020

Tab. IV-7 ERASMUS+ Teacher Mobility - Training 2019/2020

Participant's name	Surname of the participant	Receiving institution	Receiving country	Start date	Date of completion
Iveta	Chabalova	Mendel University Brno	CZECH REPUBLIC	30.09.2019	03.10.2019
Tatiana	Drummer	Mendel University Brno	CZECH REPUBLIC	30.09.2019	03.10.2019
Hubert	Palush	PEFC Austria	Austria	20.07.2020	24.07.2020
Zuzana	Vidhold	Mendel University in Brno	CZECH REPUBLIC	21.07.2020	24.07.2020

Tab. IV-8 ERASMUS+ mobility of students INTERNSHIP in enterprises in the academic year 2019/2020

Participant's name	Surname of the participant	Receiving institution	Receiving country	Start date	Date of completion
Mark	Counter	Fachhochschule Salzburg GmbH	Austria	06.07.2020	25.09.2020

Katarína	Jankech	Open Innovations s.r.o.	CZECH REPUBLIC	06.07.2020	11.09.2020
Hana	Trginova	die GRAFIKmanufaktur	Austria	03.02.2020	27.05.2020

Tab. IV-9 ERASMUS+ student mobility - STUDY in the academic year 2019/2020

	Last name of the participant	RECEIVING INSTITUTION	Receiving country	Start date	Date of completion
Barbora	Kolenčíková	HOCHSCHULE WISMAR	Germany	02.03.2020	10.07.2020
Ľubomíra	Mudrová	HOCHSCHULE WISMAR	Germany	02.03.2020	10.07.2020
Lenka	Bognárová	HOCHSCHULE WISMAR	Germany	02.03.2020	10.07.2020
Philip	Turcek	TOMAS BATA UNIVERSITY IN ZLÍN	CZECH REPUBLIC	13.09.2019	06.02.2020
Mark	Counter	FACHHOCHSCHULE SALZBURG GMBH	Austria	17.09.2019	30.06.2020
Monika	Mojžišová	HOCHSCHULE WISMAR	Germany	02.09.2019	28.02.2020
Karolína	Marcoňová	FACHHOCHSCHULE SALZBURG GMBH	Austria	03.09.2020	09.02.2020
Richard	Priadka	SISEKAITSEAKADEEMIA	Estonia	01.09.2019	31.01.2020
Milan	Ostrich	SISEKAITSEAKADEEMIA	Estonia	01.09.2019	31.01.2020
Lucia	Čarnogurská	HOCHSCHULE WISMAR	Germany	16.09.2019	29.02.2020

Tab. IV-10 ERASMUS+ mobility of incoming students in the academic year 2019/2020 (study)

Participant's name	Surname of the participant	Sending institution	Sending country	Start date	Date of completion
Anastasia	Scheglova	Forest Technical University, Saint Petersburg	Russia	23.09.2019	22.12.2019
Oliver	Frankholz	**Code of the sending organisation** D LEMGO01	Germany	10.02.2020	19.06.2020
Till	Studnutzky	**Code of the sending organisation** D LEMGO01	Germany	10.02.2020	19.06.2020

Tab. IV-11 ERASMUS+ mobility of incoming teachers and staff in the academic year 2019/2020

Participant's name	Surname of the participant	Code of the sending organisation	Sending country	Start date	Date of completion	Type of activity
Jan	Sadlacek	CZ PRAHA02	CZECH REPUBLIC	15.10.2019	18.10.2019	Teaching
James	Gawron	EN WARSZAW05	Poland	17.02.2020	21.02.2020	Teaching
Joanna	Alexeyuk.Gawron	EN WARSZAW05	Poland	17.02.2020	21.02.2020	Teaching
António Carlos	Camilio Correia de Lacerda	P FARO02	Portugal	04.11.2019	08.11.2019	Training
Branko	Savic	RS NOVISAD03	Serbia	26.11.2019	30.11.2019	Teaching
Iveta	Kmecová	EN CESKE04	CZECH REPUBLIC	24.08.2020	28.08.2020	Teaching

Tab. IV-12

INTERNATIONAL TREATIES DF

P.no.	Institution	Retrieved from	The emergence of	Duration	Signed for TUZVO	Responsible for the performance of the contract	Note
CZECH REPUBLIC							
1	SOCIETY FOR MONUMENT PRESERVATION TECHNOLOGY - STOP, Z. S., PRAGUE	Associate Membership Agreement of the Society for Technology in Preservation of Monuments - STOP, z. s.	1.1.2014	until 31.1.2014	prof. Siklienka	Dean of DF	is automatically extended
2	HIGHER VOCATIONAL SCHOOL AND SECONDARY INDUSTRIAL SCHOOL, VOLYN	Partnership agreement for the implementation of the project Building a training centre (of supra-regional importance) for the manufacturing industry	31.8.2007		prof. Čunderlík	Dean of DF	no expiry date specified
3	HIGHER VOCATIONAL SCHOOL AND SECONDARY INDUSTRIAL SCHOOL, VOLYN	Contract for the lease of non-residential premises for the purpose of establishing a detached workplace of TU in Zvolen	6.9.2005	indefinite period	prof. Tuček, prof. Čunderlík	Dean of DF	
4	HIGHER VOCATIONAL SCHOOL AND SECONDARY INDUSTRIAL SCHOOL, VOLYN	Mutual cooperation agreement	15.5.2000	indefinite period	prof. Marčok	Dean of DF	
5	KRONOSPAN SK, SPOL. S R.O.	Cooperation agreement	19.5.2005	indefinite period	prof. Tuček doc. Klement prof. Štefka	doc. Clement	č. 588/2005
CROATIA							
6	FACULTY OF FORESTRY, UNIVERSITY OF ZAGREB, ZAGREB	Cooperation agreement	academic year 2007/2008	5 years	prof. Tuček	Dean of DF	automatically extended for 5 years unless cancelled within 6 months before the expiry date
POLAND							

7	CZESTOCHOWA UNIVERSITY OF TECHNOLOGY, CZESTOCHOWA	University cooperation agreement	18.6.2009	3 years	prof. Tuček	Ing. Gejdoš, doc. Potkány	is automaticall y extended
P.no.	Institution	Retrieved from	The emergence of	Duration	Signed for TUZVO	Responsible for the performance of the contract	Note
8	THE MAIN SCHOOL OF FIRE SERVICE IN WARSAW, WARSAW	Cooperation agreement	3.6.2002	indefinite period	prof. Šupín	doc. Polakovič	
9	WOOD TECHNOLOGY INSTITUTE	Cooperation agreement	15.8. 2020	Time indefinite	prof. Kropil	prof. Sedliačik	
RUSSIA							
10	MOSCOW STATE FOREST UNIVERSITY, MOSCOW	Cooperation agreement	20.11.2015	indefinite period	prof. Kropil	prof. Sedliačik	30-day notice period
11	KAZAN NATIONAL RESEARCH TECHNOLOGIC AL UNIVERSITY, KAZAN	Cooperation agreement	3.7.2015	indefinite period	prof. Kropil	Dean of DF	30-day notice period
12	VORONEZH STATE ACADEMY OF FORESTRY AND TECHNOLOGIE S, VORONEZH	Cooperation agreement	30.10.2013	indefinite period	prof. Kropil	prof. Sedliačik	30-day notice period
13	THE IZHEVSK STATE TECHNICAL UNIVERSITY, IZHEVSK	Cooperation agreement	31.1.2008	5 years	prof. Tuček	prof. Sedliačik	can be extended in case of interest
14	SAINT PETERSBURG STATE FOREST TECHNICAL UNIVERSITY	Interinstitutional Agreement	18.1.2019	2021	prof. Kropil	Ing. Kaputa	
15	URAL FEDERAL UNIVERSITY	Cooperation agreement	4.9.2018	5 years	prof. Kropil	prof. Sedliačik	3-month notice period
SERBIA							
16	HIGHER EDUCATION TECHNICAL SCHOOL OF PROFESSIONAL STUDIES FROM NOVI SAD, NOVI SAD	Cooperation agreement	2.10.2014	indefinite period	prof. Kropil	Ing. Mračková	

17	COLLEGE OF APPLIED TECHNICAL SCIENCES , NISH	Framework cooperation agreement	10.7.2017	5 years	prof. Kropil	Ing. Mračková	30-day notice period
P.no.	Institution	Retrieved from	The emergence of	Duration	Signed for TUZVO	Responsible for the performance of the contract	Note
UKRAINE							
18	UKRAINIAN NATIONAL FORESTRY UNIVERSITY, LVOV	Cooperation agreement	19.12.2013	indefinite period	prof. Kropil	prof. Sedliačik	30-day notice period
CHINA							
19	BEIJING FORESTRY UNIVERSITY (BJFU),	Cooperation agreement	2. 2019	indefinite period	prof. Kropil	doc. Baďura	
20	NANJING UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHINA)	Memorandum of Understanding on ACADEMIC COOPERATION AND PERSONNEL EXHCANGE	31. 1.2018	5 years	Prof. Kropil		
BELGIUM							
21	JOINT RESEARCH CENTRE OF THE EUROPEAN COMMISSION	Cooperation agreement	5.3.2019	5 years	prof. Kropil	Dean of DF	orally or in writing may be extended
HUNGARY							
22	NATIONAL UNIVERSITY OF PUBLIC SERVICE HUNGARY	Framework cooperation agreement	19.6.2018	5 years	Prof. Kropil	Prof. Kačíková	

DOMESTIC CONTRACTS DF

P.no.	Institution	Retrieved from	The emergence of	Duration	Signed for TUZVO	Responsible for the performance of the contract	Note
1	ŠKODA AUTO, A.S.	cooperation agreement	29.3.2017	5 years	prof. Kropil	doc. Baďura	
2	WOOD PROCESSORS ASSOCIATION	contract for the loan of non-residential premises	2.12.2016	31.12.2021	prof. Kropil	Dean of DF	
3	HOLDES, S.R.O.	cooperation agreement	14.11.2016	for an indefinite period	prof. Kropil	Dean of DF	
4	BUKÓZA HOLDING, A.S.	cooperation agreement	6.6.2008	for an indefinite period	prof. Tuček	Dean of DF	
5	NEFAB PACKAGING SLOVAKIA, S.R.O.	cooperation agreement	10.10.2007	for an indefinite period	prof. Tuček	Dean of DF	
6	KRONOSPAN SK, SPOL. S R.O.	cooperation agreement	16.3.2006	for an indefinite period	prof. Tuček	Dean of DF	No. 399/2006 (Prešov) - the company has already been dissolved
7	REGIONAL HAZZ HEADQUARTERS IN BANSKA BYSTRICA	Cooperation agreement	28.11.2017	For an indefinite period	Prof. Kropil	Prof. Kačíková	
8	MINISTRY OF THE INTERIOR OF THE SLOVAK REPUBLIC	Framework Agreement	30.6.2015	For an indefinite period	Prof. Kropil		
9	BEECH, DDD, SPOL. S R.O.	cooperation agreement	19.5.2005	for an indefinite period	prof. Tuček	Dean of DF	No. 48/2005 (Zvolen)
10	FCHPT STU BRATISLAVA	cooperation agreement	2.9.2005	for an indefinite period	prof. Čunderlík	Dean of DF	
11	UNIVERSITY OF PREŠOV IN PREŠOV	Framework cooperation agreement	18.9.2017	For an indefinite period	Prof. Kropil	Doc. Majlingová	
12	ORANGE SLOVAKIA, A. S. BRATISLAVA	cooperation agreement	12.2.2019	for an indefinite period	prof. Kropil	doc. Baďura	
13	VILLAGE SIELNICA	Loan agreements (CAS)	3.6.2014	For an indefinite period	Prof. Kropil	Ing. Mračková	
14	SECONDARY SCHOOL OF FIRE PROTECTION MV SR IN ŽILINA	Cooperation agreement	2.3.2018	For an indefinite period	Prof. Kropil	Prof. Kačíková	
15	INSTITUTE OF SPECIAL HEALTH AND TRAINING MO SR LEŠT'	Cooperation agreement	7.12.2011	For an indefinite period	Prof. Tuček		
16	COLLEGE OF SECURITY MANAGEMENT IN KOSICE	Framework cooperation agreement	7.6.2018	For an indefinite period	Prof. Kropil	Prof. Kačíková	